



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 176094

TO: Mary K Zeman
Location: rem/2D61/2C70
Art Unit: 1631
Friday, January 20, 2006
Case Serial Number: 08/836075

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518 *BOB*

barbara.obryen@uspto.gov

Search Notes

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STIC-Biotech/ChemLib

From: Pak, Michael
Sent: Tuesday, January 10, 2006 2:00 PM
To: STIC-Biotech/ChemLib
Cc: Zeman, Mary
Subject: FW: Interference search 08/836075

Dear STIC,

Please search the multiple sequence search request set forth below.

Thanks,

Mike Pak

-----Original Message-----

From: Chan, Christina
Sent: Monday, January 09, 2006 6:06 PM
To: Zeman, Mary; Pak, Michael; STIC-Biotech/ChemLib
Subject: RE: Interference search 08/836075

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644

(571)-272-0841

Remsen, 3E89

-----Original Message-----

From: Zeman, Mary
Sent: Monday, January 09, 2006 3:14 PM
To: Chan, Christina
Subject: Interference search 08/836075

The following application has a multitude of claimed polynucleotide sequences which I was required to examine after petition of the restriction requirement. This case may be allowable, and I must now do an interference search of the claimed sequences. Please approve this lengthy search. Thanks, Mary Z

Please search the following SEQ ID NO: of 08/836075 in pending and uspatent files only.

SEQ ID NOs: 1, 3, 5, 7, 9, 11, 13, 15, 17,
19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 53, 55, 57, 59, 61, 63,
65, 67,

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 103 or 105 .

Mary K. Zeman
Primary Examiner, 1631
571-272-0723
Remsen 2D61
MAILBOX: REM 2C70
mary.zeman@uspto.gov

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 81.2663 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-1

Perfect score: 327
Sequence: 1 atggagcagcaatcctaacc.....ctcgcccaattgggcccc 327

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, NA.*

1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	315.4	96.5	327	3	US-08-836-075A-1
2	296.2	90.6	573	3	US-09-194-949A-5
3	289.8	88.6	573	3	US-08-290-665A-113
4	289.8	88.6	573	3	US-08-290-665A-114
5	289.8	88.6	573	6	PCT-US95-10398-113
6	289.8	88.6	573	6	PCT-US95-10398-114
7	288.2	88.1	573	2	US-08-290-665A-110
8	288.2	88.1	573	6	PCT-US95-10398-110
9	287.8	88.0	327	3	US-08-836-075A-5
10	287.2	87.8	549	3	US-08-441-971-62
11	287.2	87.8	549	3	US-08-221-653-62
12	287.2	87.8	549	3	US-08-442-144A-62
13	287.2	87.8	549	3	US-08-441-970-62
14	287	87.8	9472	3	US-08-150-204F-96
15	286.6	87.6	573	2	US-08-290-665A-111
16	286.6	87.6	573	2	US-08-290-665A-115
17	286.6	87.6	573	2	US-08-290-665A-117
18	286.6	87.6	573	2	US-08-290-665A-118
19	286.6	87.6	573	6	PCT-US95-10398-111
20	286.6	87.6	573	6	PCT-US95-10398-115
21	286.6	87.6	573	6	PCT-US95-10398-117
22	286.6	87.6	573	6	PCT-US95-10398-118
23	286.6	87.6	685	3	US-09-690-936-37
24	286.6	87.6	686	3	US-08-988-321B-37

25	286.6	87.6	686	3	US-08-397-220B-25	Sequence 25, Appl
26	286.6	87.6	686	3	US-08-650-093C-25	Sequence 25, Appl
27	286.6	87.6	1539	2	US-08-470-426B-17	Sequence 17, Appl
28	286.6	87.6	1863	3	US-08-470-426B-14	Sequence 14, Appl
29	286.6	87.6	9275	2	US-10-259-275-39	Sequence 39, Appl
30	285.6	87.3	713	3	US-09-763-836-1	Sequence 1, Appl
31	285.6	87.3	2433	3	US-08-612-973-49	Sequence 49, Appl
32	285.6	87.3	2433	3	US-08-927-597-49	Sequence 49, Appl
33	285.6	87.3	2433	3	US-08-928-757-49	Sequence 49, Appl
34	285	87.2	345	2	US-08-324-977-7	Sequence 7, Appl
35	285	87.2	345	2	US-08-384-616-7	Sequence 7, Appl
36	285	87.2	345	2	US-08-904-686A-7	Sequence 7, Appl
37	285	87.2	345	2	US-09-315-850-7	Sequence 7, Appl
38	285	87.2	573	2	US-08-290-665A-105	Sequence 105, Appl
39	285	87.2	573	2	US-08-290-665A-108	Sequence 108, Appl
40	285	87.2	573	2	US-08-290-665A-112	Sequence 112, Appl
41	285	87.2	573	2	US-08-290-665A-120	Sequence 120, Appl
42	285	87.2	573	2	US-08-290-665A-121	Sequence 121, Appl
43	285	87.2	573	2	US-08-290-665A-124	Sequence 124, Appl
44	285	87.2	573	6	PCT-US95-10398-105	Sequence 105, Appl
45	285	87.2	573	6	PCT-US95-10398-108	Sequence 108, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-1
Sequence 1, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

QY	61	GGSGTNNNNNNNCCGGGTGGCGGTCAAGATCGTTGTGAAGATTACCTGTTGCGCCAGG	120
Db	61	GACGTCAAGTTCGCCGGCGGTGGTCAAGATCGTTGTGAAGTTACCTGTTGCCGCCAAG	120
QY	121	GGCCCCAGANNCGGTGTGTGCGCGGACTAGAAAGACTTCCGAGCGTCAACAACCTGTGTGC	180
Db	121	GGCCCCAGATTGGGTGTGTGCGCGCACTAGAAAGACTTCCGAGCGGTGCAACTCGTGA	180
QY	181	AGGCACACAGCTATCCCCCAAGGCTGGCGAGCGAGGAGGCTTGAGGCTACGCCCGGG	240
Db	181	AGGCACACAACCTATCCCCCAAGGCTGCCCGGCGCAGAGGGCAGGGGCTTGAGGCTACGCCCGGG	240
QY	241	TATCTTGGCCCCCTCTATGTGCATATGAGGGCTGCGGGTGGGCGGGATGCTCTGTCCCC	300
Db	241	TACCTTGGCCCCCTCTATGTGCATATGAGGGCTTGGGGTGGGAGAGATGCTCTGTCAACC	300
QY	301	CGCGGCTCTCGGCGCCCAATTGGGGGGCCCC	327
Db	301	CGTGGCTCTCGGCTAGATTGGGGGGCCCC	327

RESULT 4
US-08-290-665A-114
; Sequence 114, Application US/08290665A
; Patent No. 8000853

```

GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF INVENTIONS: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6649
TELEX: 421792
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK1

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Query Match	88.6%;	Score 289.8;	DB 2;	length 573;
Best Local Similarity	90.8%;	Pred. No. 3.6e-72;		
Matches 297;	Conservative	4;	Mismatches 26;	Indels 0;
				Gaps 0;

[illegible]

RESULT 5
PCT-US95-10398-113

GENERAL INFORMATION:
APPLICANT: BUCH, J. J., MILLER, R. H. AND
APPLICANT: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEO ID NO: 113:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

Query Match	88.6%;	Score 289.8;	DB 2;	Length 573;
Best Local Similarity	90.8%;	Pred. No. 3.6e-72;		
Matches 297; Conservative	4;	Mismatches 26;	Indels 0;	Gaps 0;

TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: P10
PCT-US95-10398-113

Query Match 88.6%; Score 289.8; DB 6; Length 573;
Best Local Similarity 90.8%; Pred. No. 3.6e-72;
Matches 297; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAACAACGTAACACCAACCGCCCTCAK 60
DB 1 ATGAGCAGCATCTTAACTCAAGAAAAACAACGTAACACCAACCGCCCTCAK 60
QY 61 GGGGTNNNNNNCCGGGTGGGTGAGATCGTTGAGTTACCTGTGCGCGGAGG 120
DB 61 GACGTCAAGTTCCCGGGGGGTGTCAGATCGTTGAGTTACCTGTGCGCGGAGG 120
QY 121 GGGCCAGNNNGGTGTGCGCGGAGTGAAGAGCTTCCGAGCGGTCAACCTCGTGGC 180
DB 121 GGGCCAGGTGGGTGTGCGCGGAGTGAAGAGCTTCCGAGCGGTCAACCTCGTGGG 180
QY 181 AGGCGACAGCTATCCCAAGGCTGTCGTCGAGGCGAGGTCTTGAGCTCAAGCCGAG 240
DB 181 AGGCGACAGCTATCCCAAGGCTGTCGTCGAGGCGAGGTCTTGAGCTCAAGCCGAG 240
QY 241 TATCTTGGCCCCCTTATGGAATGAGGAGGCGGTGGGAGNTGGCTCTGTCCGCC 300
DB 241 TACCTTGGCCCCCTTATGGAATGAGGAGGCGGTGGGAGNTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGTGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 6 PCT-US95-10398-114

Sequence 114, Application PC/TUS9510398

GENERAL INFORMATION: PC/TUS9510398
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DX1
PCT-US95-10398-114

Query Match 88.6%; Score 289.8; DB 6; Length 573;
Best Local Similarity 90.8%; Pred. No. 3.6e-72;
Matches 297; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAACAACGTAACACCAACCGCCCTCAK 60
DB 1 ATGAGCAGCATCTTAACTCAAGAAAAACAACGTAACACCAACCGCCCTCAK 60
QY 61 GGGGTNNNNNNCCGGGTGGGTGAGATCGTTGAGTTACCTGTGCGCGGAGG 120
DB 61 GACGTCAAGTTCCCGGGGGGTGTCAGATCGTTGAGTTACCTGTGCGCGGAGG 120
QY 121 GGGCCAGNNNGGTGTGCGCGGAGTGAAGAGCTTCCGAGCGGTCAACCTCGTGGC 180
DB 121 GGGCCAGGTGGGTGTGCGCGGAGTGAAGAGCTTCCGAGCGGTCAACCTCGTGGG 180
QY 181 AGGCGACAGCTATCCCAAGGCTGTCGTCGAGGCGAGGTCTTGAGCTCAAGCCGAG 240
DB 181 AGGCGACAGCTATCCCAAGGCTGTCGTCGAGGCGAGGTCTTGAGCTCAAGCCGAG 240
QY 241 TATCTTGGCCCCCTTATGGAATGAGGAGGCGGTGGGAGNTGGCTCTGTCCGCC 300
DB 241 TACCTTGGCCCCCTTATGGAATGAGGAGGCGGTGGGAGNTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 7 US-08-290-665A-110

Sequence 110, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

CITY: HOUSTON
STATE: TEXAS

COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-5

Query Match 88.0%; Score 287.8; DB 3; Length 327;
Best Local Similarity 90.5%; Pred. No. 1.1e-71;
Matches 296; Conservative 4; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGAAATCCTAAACCTCAAGAAACCAAGTAACACCAACCGCGCCCTCAK 60
DB 1 ATGAGCAGAAATCCTAAACCTCAAGAAACCAAGTAACACCAACCGCGCCCTCAK 60
QY 61 GSGGTNNNNNNCCGGGTGCGGTGAGATCGTTGTGAGTTTACCTGTTGCGGCAGG 120
DB 61 GACGTCAAGATCCCGGGTGTGTGTCAGATCGTTGTGAGTTTACCTGTTGCGGCAGG 120
QY 121 GGGCCAGAGNNGGTGTGCGCGGCACTGAGAAAGACTTCCAGCGGTCAACAACCTGTGTC 180
DB 121 GGGCCAGAGTTGGGTGTGCGCGGCACTGAGAAAGACTTCCAGCGGTCAACAACCTGTGTC 180
QY 181 AGGGACAGAGCTATCCCAAGGCTGCGGCGGCAAGGTCCTGGGCTCAGCGCGGG 240
DB 181 AGGGACAGAGCTATCCCAAGGCTGCGGCGGCAAGGTCCTGGGCTCAGCGCGGG 240
QY 241 TATCCTTGAGCCCTCTATAGCAATGAGGAGCTGCGGGTGGGAGTCTCTGTCCCC 300
DB 241 TATCCTTGAGCCCTCTATAGCAATGAGGAGCTGCGGGTGGGAGTCTCTGTCCCC 300
QY 301 CGCGGCTCTCGGCGCAATTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCGCAATTGGGGCCCC 327

RESULT 10
US-08-441-971-62
Sequence 62, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: spl1
US-08-441-971-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGAAATCCTAAACCTCAAGAAACCAAGTAACACCAACCGCGCCCTCAK 60
DB 1 ATGAGCAGAAATCCTAAACCTCAAGAAACCAAGTAACACCAACCGCGCCCTCAK 60
QY 61 GSGGTNNNNNNCCGGGTGCGGTGAGATCGTTGTGAGTTTACCTGTTGCGGCAGG 120
DB 61 GACGTCAAGATCCCGGGTGTGTGTCAGATCGTTGTGAGTTTACCTGTTGCGGCAGG 120
QY 121 GGGCCAGAGNNGGTGTGCGCGGCACTGAGAAAGACTTCCAGCGGTCAACAACCTGTGTC 180
DB 121 GGGCCAGAGTTGGGTGTGCGCGGCACTGAGAAAGACTTCCAGCGGTCAACAACCTGTGTC 180
QY 181 AGGGACAGAGCTATCCCAAGGCTGCGGCGGCAAGGTCCTGGGCTCAGCGCGGG 240
DB 181 AGGGACAGAGCTATCCCAAGGCTGCGGCGGCAAGGTCCTGGGCTCAGCGCGGG 240
QY 241 TATCCTTGAGCCCTCTATAGCAATGAGGAGCTGCGGGTGGGAGTCTCTGTCCCC 300
DB 241 TATCCTTGAGCCCTCTATAGCAATGAGGAGCTGCGGGTGGGAGTCTCTGTCCCC 300
QY 301 CGCGGCTCTCGGCGCAATTGGGGCCCC 326
DB 301 CGCGGCTCTCGGCGCAATTGGGGCCCC 326

RESULT 11
US-08-221-653-62
Sequence 62, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: sp1
US-08-221-653-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCTCTAC 60
DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCTCTAC 60
QY 61 GAGGTNNNNNNCCGGGTGGCGGTGAGTGGTGGAGTTTACCTGTGCGCGCAGG 120
DB 61 GAGGTNNNNNNCCGGGTGGCGGTGAGTGGTGGAGTTTACCTGTGCGCGCAGG 120
QY 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
DB 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
QY 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
DB 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
QY 181 AGGGGACAGCCTATCTCCCAAGGCTGCGGTCCGAGGCGAGGCTTGGGCTCAGCCGCG 240
DB 181 AGGGGACAGCCTATCTCCCAAGGCTGCGGTCCGAGGCGAGGCTTGGGCTCAGCCGCG 240
QY 241 TATCTTGGCCCTTATGCAATGAGGGCTGCGGGTGGGCTCTGCTGCTCCG 300
DB 241 TATCTTGGCCCTTATGCAATGAGGGCTGCGGGTGGGCTCTGCTGCTCCG 300
QY 301 CGCGGCTCTCGGCCCAATGGGGGCC 326
DB 301 CGCGGCTCTCGGCCCAATGGGGGCC 326

RESULT 12
US-08-442-144A-62
Sequence 62, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: sp1
US-08-442-144A-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCTCTAC 60
DB 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAACGTAACCAACCGCCGCTCTAC 60
QY 61 GAGGTNNNNNNCCGGGTGGCGGTGAGTGGTGGAGTTTACCTGTGCGCGCAGG 120
DB 61 GAGGTNNNNNNCCGGGTGGCGGTGAGTGGTGGAGTTTACCTGTGCGCGCAGG 120
QY 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
DB 121 GAGCCCAAGNNGGGTGTGCGCGCACTTGAAGAGCTTCCAGCGGTCAACCTGTGTC 180
QY 181 AGGGGACAGCCTATCTCCCAAGGCTGCGGTCCGAGGCGAGGCTTGGGCTCAGCCGCG 240
DB 181 AGGGGACAGCCTATCTCCCAAGGCTGCGGTCCGAGGCGAGGCTTGGGCTCAGCCGCG 240

Oy 241 TATCTTGAGCCCTCTATGCAATGAGGCTGCGGGTGGCGGNTGCTCTCTCCCTCC 300
Db 241 TATCTTGAGCCCTCTATGCAATGAGGCTGCGGGTGGCGGNTGCTCTCTCCCTCC 300
Oy 301 CGCGCTCTCGGCCCAATTGGGGCCC 326
Db 301 CGCGCTCTCGGCCCAATTGGGGCCC 326

RESULT 13

US-08-441-970-62
Sequence 62, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: spl
US-08-441-970-62

Query Match 87.8%; Score 287.2; DB 3; Length 549;
Best Local Similarity 90.5%; Pred. No. 1.9e-71;
Matches 295; Conservative 4; Mismatches 27; Indels 0; Gaps 0;
Oy 1 ATGAGCAGCAATCCCAAACTCAAGAAACCAAGCAACCAACCGCGCCCTCA 60
Db 1 ATGAGCAGCAATCCCAAACTCAAGAAACCAAGCAACCAACCGCGCCCTCA 60
Oy 61 GAGGTTNNNNNNCCGGGTGCGGTGCGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Db 61 GAGGTTNNNNNNCCGGGTGCGGTGCGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Oy 61 GAGGTTNNNNNNCCGGGTGCGGTGCGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Db 61 GAGGTTNNNNNNCCGGGTGCGGTGCGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Oy 121 GAGCCCAAGNNGGTGTGCGCGCACTAGAAAGACTTCCGAGCGGTCAACAATCTGTG 180
Db 121 GAGCCCAAGNNGGTGTGCGCGCACTAGAAAGACTTCCGAGCGGTCAACAATCTGTG 180

Oy 181 AGGCAAGCCTATCCCAAGAGCTCGYCGYCGAGGAGCAAGTCTGGGCTCAGCCCGAG 240
Db 181 AGGCAAGCCTATCCCAAGAGCTCGYCGYCGAGGAGCAAGTCTGGGCTCAGCCCGAG 240
Oy 241 TATCTTGAGCCCTCTATGCAATGAGGCTGCGGGTGGCGGNTGCTCTCTCCCTCC 300
Db 241 TATCTTGAGCCCTCTATGCAATGAGGCTGCGGGTGGCGGNTGCTCTCTCCCTCC 300
Oy 301 CGCGCTCTCGGCCCAATTGGGGCCC 326
Db 301 CGCGCTCTCGGCCCAATTGGGGCCC 326

RESULT 14

US-08-150-204E-96
Sequence 96, Application US/08150204E
Patent No. 6538126
GENERAL INFORMATION:
APPLICANT: CHO, Joong Myung
LEE, Yong Beom
PARK, Young Moo
LIM, Kook Jin
CHOI, Deog Young
SO, Hong Seob
KIM, Chun Hyung
KIM, Sung Taek
YANG, Jae Young
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows
SOFTWARE: Microsoft word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/150,204E
FILING DATE: 20-Apr-1994
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: KR 91-9510
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: KR 91-13601
FILING DATE: 6-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Shahan Islam, Esq.
REGISTRATION NUMBER: 32,507
REFERENCE/DOCKET NUMBER: 2695/FLK
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 940-8564
TELEFAX: (212) 940-8776
INFORMATION FOR SEQ ID NO: 96
SEQUENCE CHARACTERISTICS:
LENGTH: 9472 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: KHCV-LBC1, Flg. 2
SEQUENCE DESCRIPTION: SEQ ID NO: 96
US-08-150-204E-96

Query Match 87.8%; Score 287; DB 3; Length 9472;
Best Local Similarity 90.5%; Pred. No. 5.2e-71;
Matches 296; Conservative 3; Mismatches 28; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
DB 343 ATGAGCAGCATCTTAACTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 402
QY 61 GGGSTNNNNNNCCGGGTGGCGGTGAGATCGTTGAGATTAACTGTTGCCGCGCAGG 120
DB 403 GATATTAGTTCCTCCGGGGGTGTGATGATCGTTGAGATTAACTGTTGCCGCGCAGG 462
QY 121 GGGCCCAAGNNNGGTGTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 180
DB 463 GGGCCCAAGTTGGGTGTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 522
QY 181 AGGCGACAGCTTATCCCAAGGCTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 240
DB 523 AGGCGACAGCTTATCCCAAGGCTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 582
QY 241 TATCTTGGCCCTCTATGGAATGAGGCTGCGGCGGTGGCGGNTGGCTCTGTCCTCC 300
DB 583 TACCTTGGCCCTCTATGGAATGAGGCTGCGGCGGTGGCGGNTGGCTCTGTCCTCC 642
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 643 CGCGGCTCTCGGCCCAATTGGGGCCCC 669

RESULT 15

US-08-290-665A-111

Sequence 111, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290, 665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6849

TELEX: 421792

INFORMATION FOR SEQ ID NO: 111:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homosapiens

INDIVIDUAL ISOLATE: D1

US-08-290-665A-111

Query Match 87.6%; Score 286.6; DB 2; Length 573;
Best Local Similarity 90.2%; Pred. No. 2,9e-71;
Matches 295; Conservative 4; Mismatches 28; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
DB 1 ATGAGCAGCATCTTAACTCAAGAAAAACCAACCTAACACCAACCCGCCCTCAK 60
QY 61 GGGSTNNNNNNCCGGGTGGCGGTGAGATCGTTGAGATTAACTGTTGCCGCGCAGG 120
DB 61 GAGCTCAAGTTCCCGGGCGGTGTGATGATCGTTGAGATTAACTGTTGCCGCGCAGG 120
QY 121 GGGCCCAAGNNNGGTGTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 180
DB 121 GGGCCCAAGTTGGGTGTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 180
QY 181 AGGCGACAGCTTATCCCAAGGCTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 240
DB 181 AGGCGACAGCTTATCCCAAGGCTGCGGCGCATGAGAACTTCCGAGCGGTCAACCTCGTGGC 240
QY 241 TATCTTGGCCCTCTATGGAATGAGGCTGCGGCGGTGGCGGNTGGCTCTGTCCTCC 300
DB 241 TACCTTGGCCCTCTATGGAATGAGGCTGCGGCGGTGGCGGNTGGCTCTGTCCTCC 300
QY 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAATTGGGGCCCC 327

Search completed: January 11, 2006, 04:37:36
Job time: 82.2663 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-3
Perfect score: 447
Sequence: 1 gacgcgtgacatgcacac.....aggagtcacatgcacac 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*
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2: /cgn2_6/ptodata/1/ina/5/COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A/COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B/COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H/COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PC/US/COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP/COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE/COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	443.4	99.2	447	3	US-08-836-075A-3
2	372.6	83.4	447	3	US-08-836-075A-7
3	321.8	72.0	795	3	US-08-612-973-5
4	321.8	72.0	795	3	US-08-927-597-5
5	321.8	72.0	795	3	US-08-928-757-5
6	321.8	72.0	2082	3	US-08-612-973-47
7	321.8	72.0	2082	3	US-08-927-597-47
8	321.8	72.0	2082	3	US-08-928-757-47
9	321.8	72.0	2433	3	US-08-612-973-49
10	321.8	72.0	2433	3	US-08-927-597-49
11	321.8	72.0	2433	3	US-08-928-757-49
12	320.2	71.6	501	2	US-08-483-695-30
13	320.2	71.6	501	2	US-07-965-285-30
14	320.2	71.6	501	2	US-08-487-231-30
15	320.2	71.6	501	3	US-09-201-912-30
16	320.2	71.6	1539	2	US-08-470-426B-17
17	320.2	71.6	1863	2	US-08-470-426B-14
18	318.6	71.3	633	3	US-08-612-973-7
19	318.6	71.3	633	3	US-08-927-597-7
20	318.6	71.3	633	3	US-08-928-757-7
21	317	70.9	636	3	US-08-612-973-13
22	317	70.9	636	3	US-08-927-597-13
23	317	70.9	636	3	US-08-928-757-13
24	310.6	69.5	742	2	US-08-081-072-18

25	310.6	69.5	742	2	US-08-449-093A-18	Sequence 18, Appl
26	310.6	69.5	932	2	US-08-081-072-15	Sequence 15, Appl
27	310.6	69.5	932	2	US-08-449-093A-15	Sequence 15, Appl
28	310.6	69.5	9472	3	US-08-150-204E-96	Sequence 96, Appl
29	310.6	69.5	9595	3	US-09-014-416-4	Sequence 4, Appl1
30	310.6	69.5	9599	3	US-09-014-416-6	Sequence 6, Appl1
31	309.6	69.3	11076	3	US-09-539-601-1	Sequence 1, Appl1
32	309.6	69.3	11076	3	US-09-539-601-19	Sequence 19, Appl
33	309.6	69.3	11076	3	US-09-539-601-25	Sequence 25, Appl
34	309.6	69.3	11076	3	US-09-539-601-31	Sequence 31, Appl
35	309	69.1	501	2	US-08-483-695-28	Sequence 28, Appl
36	309	69.1	501	2	US-07-965-285-28	Sequence 28, Appl
37	309	69.1	501	2	US-08-487-231-28	Sequence 28, Appl
38	309	69.1	501	3	US-09-201-912-28	Sequence 28, Appl
39	307.4	68.8	1037	2	US-08-462-195-1	Sequence 1, Appl1
40	307.4	68.8	1037	2	US-08-636-883-1	Sequence 1, Appl1
41	307.4	68.8	1037	3	US-09-127-829-1	Sequence 1, Appl1
42	307.4	68.8	9275	3	US-10-259-275-39	Sequence 39, Appl
43	305.8	68.4	2116	3	US-08-191-160-21	Sequence 21, Appl
44	297.8	66.6	1037	2	US-08-462-195-3	Sequence 3, Appl1
45	297.8	66.6	1037	2	US-08-636-883-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-08-836-075A-3
; Sequence 3, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-3

Query Match 99.2%; Score 443.4; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 1.1e-130;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGCGCGTGAACATGACAGAGGAACTTCCCGGTTGCTCTTCTCTATCTTCTCTG 60
DB 1 GAGCGCGTGAACATGACAGAGGAACTTCCCGGTTGCTCTTCTCTATCTTCTCTG 60
QY 61 GCTTTGCTGCTCTGCTTGAAGCTTCCAAACACCGCTCAAGAGTGGCCAAAGCATCCGGG 120
DB 61 GCTTTGCTGCTCTGCTTGAAGCTTCCAAACACCGCTCAAGAGTGGCCAAAGCATCCGGG 120
QY 121 GTGATCATGTCAACCAAGACTTTCACATCGAGCATCATCTATGATGAGATGATG 180
DB 121 GTGATCATGTCAACCAAGACTTTCACATCGAGCATCATCTATGATGAGATGATG 180
QY 181 ATCATGACTAACCCAGGAGTGGCTGCTGCGTTCGGAGAGATACCATCTCCGCTGCTGG 240
DB 181 ATCATGACTAACCCAGGAGTGGCTGCTGCGTTCGGAGAGATACCATCTCCGCTGCTGG 240
QY 241 ATGCGGCTCAACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRGGCAATCCGA 300
DB 241 ATGCGGCTCAACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRGGCAATCCGA 300
QY 301 CGTACGCTCACTGCTGTTGTGGGGGNNCCAGCTTCTGTTCCGCTATGATGATGGAGAC 360
DB 301 CGTACGCTCACTGCTGTTGTGGGGGNNCCAGCTTCTGTTCCGCTATGATGATGGAGAC 360
QY 361 CTTTGGCGGCTGCTGCTTCTGCTGAGCAGTATTCACCTTTACCCCGCATGACCAT 420
DB 361 CTTTGGCGGCTGCTGCTTCTGCTGAGCAGTATTCACCTTTACCCCGCATGACCAT 420
QY 421 ACAACGAGAGTGCAACTGCTCAATC 447
DB 421 ACAACGAGAGTGCAACTGCTCAATC 447

RESULT 2
US-08-836-075A-7
Sequence 7, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-7

Query Match 83.4%; Score 372.6; DB 3; Length 447;
Best Local Similarity 88.6%; Pred. No. 3.2e-108;
Matches 396; Conservative 5; Mismatches 46; Indels 0; Gaps 0;

QY 1 GAGCGCGTGAACATGACAGAGGAACTTCCCGGTTGCTCTTCTCTATCTTCTCTG 60
DB 1 GAGCGCGTGAACATGACAGAGGAACTTCCCGGTTGCTCTTCTCTATCTTCTCTG 60
QY 61 GCTTTGCTGCTCTGCTTGAAGCTTCCAAACACCGCTCAAGAGTGGCCAAAGCATCCGGG 120
DB 61 GCTTTGCTGCTCTGCTTGAAGCTTCCAAACACCGCTCAAGAGTGGCCAAAGCATCCGGG 120
QY 121 GTGATCATGTCAACCAAGACTTTCACATCGAGCATCATCTATGATGAGATGATG 180
DB 121 GTGATCATGTCAACCAAGACTTTCACATCGAGCATCATCTATGATGAGATGATG 180
QY 181 ATCATGACTAACCCAGGAGTGGCTGCTGCGTTCGGAGAGATACCATCTCCGCTGCTGG 240
DB 181 ATCATGACTAACCCAGGAGTGGCTGCTGCGTTCGGAGAGATACCATCTCCGCTGCTGG 240
QY 241 ATGCGGCTCAACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRGGCAATCCGA 300
DB 241 ATGCGGCTCAACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRGGCAATCCGA 300
QY 301 CGTACGCTCACTGCTGTTGTGGGGGNNCCAGCTTCTGTTCCGCTATGATGATGGAGAC 360
DB 301 CGTACGCTCACTGCTGTTGTGGGGGNNCCAGCTTCTGTTCCGCTATGATGATGGAGAC 360
QY 361 CTTTGGCGGCTGCTGCTTCTGCTGAGCAGTATTCACCTTTACCCCGCATGACCAT 420
DB 361 CTTTGGCGGCTGCTGCTTCTGCTGAGCAGTATTCACCTTTACCCCGCATGACCAT 420
QY 421 ACAACGAGAGTGCAACTGCTCAATC 447
DB 421 ACAACGAGAGTGCAACTGCTCAATC 447

RESULT 3
US-08-612-973-5
Sequence 5, Application US/08612973
Patent No. 6150134
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUYSSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF INVENTIONS: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHAYE P.C.
STREET: 1100 NORTH GLOBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714

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: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/612,973
: FILING DATE: 11-MAR-1996
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: BYRNE, THOMAS E.
: REGISTRATION NUMBER: 32,205
: REFERENCE/DOCKET NUMBER: 1487-10
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703) 816-4000
: TELEFAX: (703) 816-4100
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 795 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..792
: NAME/KEY: mat peptide
: LOCATION: 1..789
: US-08-612-973-5

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Query Match 72.0%; Score 321.8; DB 3; Length 795;
Best Local Similarity 81.7%; Pred. No. 5.5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

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QY 1 GAGGCGGTGAACATGACAGGAACTTGCCTGCTCTTCTATCTTCTCTG 60
DB 127 GACGGCGTGAACATGACAGGAACTTGCCTGCTCTTCTATCTTCTCTG 186
QY 61 GCTTTGCTGCTCTTGAACGCTTCAACACGCTGACGAGTGGCAACGATCCG 120
DB 187 GCTTTGCTGCTCTTGAACGCTTCAACACGCTTCAACGAGTGGCAACGATCCG 246
QY 121 GTGTATCATGTACCAAGCATGTTTCACTGAGCATCATATATGAGATGACGATG 180
DB 247 ATGTACCATGTACCAAGCATGTTTCACTGAGCATCATATATGAGATGACGATG 306
QY 181 ATCATGACATACCAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 307 ATCATGACATACCAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
QY 241 ATGCGCTACACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRCGCAATCCGA 300
DB 367 GTACGCTACACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRCGCAATCCGA 426
QY 301 CGTACGCTACACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRCGCAATCCGA 360
DB 427 CGCACGCTACACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRCGCAATCCGA 486
QY 361 CTTTGGCGGTGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 487 CTCTGCGATGTCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546
QY 421 ACAAGCAGAGTCAATGCTCAATC 447
DB 547 ACGGTGACGACATGCTCAATC 573

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RESULT 4
US-08-927-597-5
; Sequence 5, Application US/08927597

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: Patent No. 6245503
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEERT
: APPLICANT: BOSMAN, FONS
: APPLICANT: DE MARTYNOFF, GUY
: APPLICANT: BUYSSE, MARIE-ANGE
: TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
: TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
: NUMBER OF SEQUENCES: 111
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: NIXON & VANDERHART P.C.
: STREET: 1100 NORTH GLEBE ROAD
: CITY: ARLINGTON
: STATE: VIRGINIA
: COUNTRY: U.S.A.
: ZIP: 22201-4714
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/927,597
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/612,973
: FILING DATE: 11-MAR-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: BYRNE, THOMAS E.
: REGISTRATION NUMBER: 32,205
: REFERENCE/DOCKET NUMBER: 1487-10
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (703) 816-4000
: TELEFAX: (703) 816-4100
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 795 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..792
: NAME/KEY: mat peptide
: LOCATION: 1..789
: US-08-927-597-5

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Query Match 72.0%; Score 321.8; DB 3; Length 795;
Best Local Similarity 81.7%; Pred. No. 5.5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

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QY 1 GAGGCGGTGAACATGACAGGAACTTGCCTGCTCTTCTATCTTCTCTG 60
DB 127 GACGGCGTGAACATGACAGGAACTTGCCTGCTCTTCTATCTTCTCTG 186
QY 61 GCTTTGCTGCTCTTGAACGCTTCAACACGCTGACGAGTGGCAACGATCCG 120
DB 187 GCTTTGCTGCTCTTGAACGCTTCAACACGCTTCAACGAGTGGCAACGATCCG 246
QY 121 GTGTATCATGTACCAAGCATGTTTCACTGAGCATCATATATGAGATGACGATG 180
DB 247 ATGTACCATGTACCAAGCATGTTTCACTGAGCATCATATATGAGATGACGATG 306
QY 181 ATCATGACATACCAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 307 ATCATGACATACCAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
QY 241 ATGCGCTACACCCCAAGCTTGCAGTCAAAAAGCTAGTGTCCCACTRCGCAATCCGA 300

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|||||
Db 367 GTAGCGCTACCCCGACGCTGCACTAGAAACCGACGCTCCCGACACGACATACGA 426
Qy 301 CGTACGCTGCACTGCTGTTGGGGGANNCCAGTCTCTGTTCCGCTAGTAGTGGGGAC 360
Db 427 CGCCACGTCATTTGCTGTTGGGGCGGCTGCTTCTGTTCCGCTAGTAGTGGGGAC 486
Qy 361 CTTTGGGGTCTGTTCTTCTGCTGGCCAGCTATTCACTTTTCAACCCCGCATGACCAT 420
Db 487 CTCGCGGATCTGCTTCTGCTGCTCCAGCTGTTCACTCTGCTCGCGGACATGAG 546
Qy 421 ACAACGAGAGTGCAACTGCTCAATC 447
Db 547 ACGGTGAGAGTGCATTTGCTCAATC 573
RESULT 5
US-08-928-757-5
; Sequence 5, Application US/08928757
; Patent No. 6890737
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,757
; FILING DATE: 12-Sep-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 795 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..792
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..789
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-08-928-757-5
Query Match 72.0%; Score 321.8; DB 3; Length 795;

Best Local Similarity 81.7%; Pred. No. 5,5e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;
Qy 1 GAAGGCGTGAACATATGCAACAGGGAACCTTGGCCGGTTCCTTTCTATCTTCCTTTG 60
Db 127 GAGCGGCGTGAACATATGCAACAGGGAATTTGGCCGGTTCCTTTCTATCTTCCTTTG 186
Qy 61 GCTTTGCTGCTCTGCTTGAAGGTTTCCAAKACGCTCAAGAGGTGGCAAGCATCGGG 120
Db 187 GCTTTGCTGCTCTGCTTGAAGGTTTCCAAKACGCTCAAGAGGTGGCAAGCATCGGG 246
Qy 121 GTGTATCATGTCAACAAAGCATGTTTCCAACTGAGAGATCATATGATGAGCGGTATG 180
Db 247 ATGTACATGTCAACAAAGCATGTTTCCAACTGAGAGATCATATGATGAGCGAGCATG 306
Qy 181 ATCATGACATACCAAGAGGTGGCCCTGCTGCTGGAGAGATACATCTCGGCTCTGG 240
Db 307 ATCATGACACCCCGGGGTGGCCCTGCTGCTGGAGAGAAACAATCTTCCGCTGCTGG 386
Qy 241 ATGAGCGTCAACCCCGACGCTTGGGCTCAAAAGTCTAGTGTCCCACTRCGGAATCCGA 300
Db 367 GTAGCGCTACCCCGACGCTGCGACGTAAGAAAGCAGCGTCCCGACAGACATACGA 426
Qy 301 CGTACGCTGACTGCTGTTGTTGGGGANNCCAGTCTCTGTTCCGCTATGTACGTGGAGAC 360
Db 427 CGCCACGTCATTTGCTGTTGGGGCGGCTGCTTCTGTTCCGCTATGTACGTGGGGAC 486
Qy 361 CTTTGGGGTCTGTTCTTCTGCTGGCCAGCTATTACCTTTTCAACCCCGCATGACCAT 420
Db 487 CTCGCGGATCTGCTTCTGCTGCTCCAGCTGTTCACTTCGCTCGCGGACATGAG 546
Qy 421 ACAACGAGAGTGCAACTGCTCAATC 447
Db 547 ACGGTGAGAGTGCATTTGCTCAATC 573
RESULT 6
US-08-612-973-47
; Sequence 47, Application US/08612973
; Patent No. 6150134
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:

LENGTH: 2082 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2079
 NAME/KEY: mat peptide
 LOCATION: 1..2076
 US-08-612-973-47

Query Match 72.0%; Score 321.8; DB 3; Length 2082;
 Best Local Similarity 81.7%; Pred. No. 8.4e-92;
 Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGCGTGAATGACAGAGGAACTTGCCTGCTCTTCTATCTTCTCTTGG 60
 DB 127 GACGGCGTGAATGACAGAGGAACTTGCCTGCTCTTCTATCTTCTCTTGG 186
 QY 61 GCTTGTCTGCTCTGCTGACGGTTTCAACACGCTGACGAGTGCAGCAAGCATCCGGG 120
 DB 187 GCTTGTCTGCTCTGCTGACGGTTTCAACACGCTGACGAGTGCAGCAAGCATCCGGG 246
 QY 121 GTGTATCATGTACCAAGAGATGTTCACATCTGACATCATATGATGAGAGCATATG 180
 DB 247 ATGTACATGTACCAAGAGATGTTCACATCTGACATCATATGATGAGAGCATATG 306
 QY 181 ATCATGACTATCCAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 307 ATCATGACTATCCAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
 QY 241 ATGGCGCTACCCCGACGCTTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 367 GTACGCGTACCCCGACGCTTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 426
 QY 301 CGTACGCTG 360
 DB 427 CGCACGCTG 486
 QY 361 CTTTGGGGTCTG 420
 DB 487 CTTGCGGATCTG 546
 QY 421 ACAACGAGAGTGAATGCTGCTCAATC 447
 DB 547 ACGGTGACAGACTGCAATGCTCAATC 573

RESULT 7
 US-08-927-597-47
 ; Sequence 47, Application US/08927597
 ; Patent No. 6245503
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GERT
 ; APPLICANT: BOSMAN, FONS
 ; APPLICANT: DE MARTYNOFF, GUY
 ; APPLICANT: BUYSSE, MARIE-ANGE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: NIXON & VANDERHAYE P.C.
 ; STREET: 1100 NORTH GLEBE ROAD
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: U.S.A.
 ; ZIP: 22201-4714
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/927,597
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/612,973
 FILING DATE: 11-MAR-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2082 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2079
 NAME/KEY: mat peptide
 LOCATION: 1..2076
 US-08-927-597-47

Query Match 72.0%; Score 321.8; DB 3; Length 2082;
 Best Local Similarity 81.7%; Pred. No. 8.4e-92;
 Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGCGTGAATGACAGAGGAACTTGCCTGCTCTTCTATCTTCTCTTGG 60
 DB 127 GACGGCGTGAATGACAGAGGAACTTGCCTGCTCTTCTATCTTCTCTTGG 186
 QY 61 GCTTGTCTGCTCTGCTGACGGTTTCAACACGCTGACGAGTGCAGCAAGCATCCGGG 120
 DB 187 GCTTGTCTGCTCTGCTGACGGTTTCAACACGCTGACGAGTGCAGCAAGCATCCGGG 246
 QY 121 GTGTATCATGTACCAAGAGATGTTCACATCTGACATCATATGATGAGAGCATATG 180
 DB 247 ATGTACATGTACCAAGAGATGTTCACATCTGACATCATATGATGAGAGCATATG 306
 QY 181 ATCATGACTATCCAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 307 ATCATGACTATCCAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
 QY 241 ATGGCGCTACCCCGACGCTTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 367 GTACGCGTACCCCGACGCTTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 426
 QY 301 CGTACGCTG 360
 DB 427 CGCACGCTG 486
 QY 361 CTTTGGGGTCTG 420
 DB 487 CTTGCGGATCTG 546
 QY 421 ACAACGAGAGTGAATGCTGCTCAATC 447
 DB 547 ACGGTGACAGACTGCAATGCTCAATC 573

RESULT 8
 US-08-928-757-47

; Sequence 47, Application US/08928757
; Patent No. 6890737
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,757
; FILING DATE: 12-Sep-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2082 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2079
; NAME/KEY: mat_peptide
; LOCATION: 1..2076
; SEQUENCE DESCRIPTION: SEQ ID NO: 47:
US-08-928-757-47
Query Match 72.0%; Score 321.8; DB 3; Length 2082;
Best Local Similarity 81.7%; Pred. No. 8.4e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;
QY 1 GACGCGGTGAATATGCAACAGGAACTTGGCCGTTCTCTTCTATCTTCTCTCTG 60
DB 127 GACGCGGTGAATATGCAACAGGAACTTGGCCGTTCTCTTCTATCTTCTCTCTG 186
QY 61 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 187 GCTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 246
QY 121 GTGTATCATGTACCAACAGCTGTTCAACTGCAACATCATCTATGAGATGAGCGTATG 180
DB 247 ATGTACATGTACGAACAGCTGCTCAACTCAACATCTGTATGAGAGCGGACATG 306
QY 181 ATCATGCACTTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 307 ATCATGCACTTACCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366

QY 241 ATGCGCTACACCCCAAGCTTGGCTCAAAAYGCTAGTGTCCCACTRGGCAATCCGA 300
DB 367 GTAGCGCTACACCCCAAGCTTGGCTCAAAAYGCTAGTGTCCCACTRGGCAATCCGA 426
QY 301 CGTCACGCTGACCTTGTGTTGGGGGNNCCAGCTTGTTCCTGCTATGATCGTGGGAC 360
DB 427 CGCACCCTGATTTGCTGTTGGGGGCGGCTGCTTTCCTGCTGCTGCTGCTGCTGCTG 486
QY 361 CTTTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 487 CTGCGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546
QY 421 ACAACGAGAGTGCACCTGCTCAATC 447
DB 547 ACGGTGACGAGCTGCAATGCTCAATC 573
RESULT 9
US-08-612-973-49
; Sequence 49, Application US/08612973
; Patent No. 6150134
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-08-612-973-49
Query Match 72.0%; Score 321.8; DB 3; Length 2433;
Best Local Similarity 81.7%; Pred. No. 9.1e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATATGCAACAGGAACTTGGCCGGTTGCTTTCTATCTTCTCTTG 60
 Db 478 GACGGCGTGAACATATGCAACAGGAACTTGGCCGGTTGCTTTCTATCTTCTCTTG 537
 QY 61 GCTTTGCTGCTCTGCTTGAAGGTTTCAACACGCGCTCAAGAGTGGCGCAATCCGGG 120
 Db 538 GCTTTGCTGCTCTGCTTGAAGGTTTCAACACGCGCTCAAGAGTGGCGCAATCCGGG 597
 QY 121 GTGATCATGTACCAACGATGTTTCAACCTCGAGCATCTTGTGATGATGAGAGGTATG 180
 Db 598 ATGATCAATGTACCAACGATGTTTCAACCTCGAGCATCTTGTGATGAGAGGTATG 657
 QY 181 ATCATGCACTAACCCGAGGTTGGCTCCCTGCGTTGCGGAGATACATCTCCGCTGCTG 240
 Db 658 ATCATGCAACCCCGGAGTGGTGGCTCCCTGCGTTGCGGAGATACATCTCCGCTGCTG 717
 QY 241 ATGGCGCTCAACCCCGAGCTTGGCGGTCAAAAAGTATGTTCCCACTTCGCGCAATCCGA 300
 Db 718 GTAGCGCTCAACCCCGAGCTTGGCGGTCAAAAAGTATGTTCCCACTTCGCGCAATCCGA 777
 QY 301 CGTACGCTCACTGCTTGTGTTGGGGGNNCCAGCTTCTGCTGATGATGATGAGGAGAC 360
 Db 778 CGCACGCTCACTGCTGTTGGGGGCGGCTGCTTCTGTTCCGCTATGATGATGAGGAGAC 837
 QY 361 CTTTGGGGTCTGCTTCTGCTGCTGCGCAAGCTATTCACCTTTTACCCCGCATCACAAT 420
 Db 838 CTCTGGCGATCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
 QY 421 ACAACGAGAGTGCAACTGCTCAATC 447
 Db 898 ACGGTGAGAGTGCAACTGCTCAATC 924

RESULT 10
 US-08-927-597-49
 ; Sequence 49, Application us/08927597
 ; Patent No. 6245503
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: BOSMAN, FONS
 ; APPLICANT: DE MARTYNOFF, GUY
 ; APPLICANT: BUYSSE, MARIE-ANGE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: NIXON & VANDERHAYE P.C.
 ; STREET: 1100 NORTH GLEBE ROAD
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: U.S.A.
 ; ZIP: 22201-4714
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/927,597
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/612,973
 ; FILING DATE: 11-MAR-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BYRNE, THOMAS E.
 ; REGISTRATION NUMBER: 32,205
 ; REFERENCE/DOCKET NUMBER: 1487-10
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703) 816-4000
 ; TELEFAX: (703) 816-4100
 ; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2433 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..2430
 ; NAME/KEY: mat_peptide
 ; LOCATION: 1..2427
 ; US-08-927-597-49
 Query Match 72.0%; Score 321.8; DB 3; Length 2433;
 Best Local Similarity 81.7%; Pred. No. 9.1e-92;
 Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATATGCAACAGGAACTTGGCCGGTTGCTTTCTATCTTCTCTTG 60
 Db 478 GACGGCGTGAACATATGCAACAGGAACTTGGCCGGTTGCTTTCTATCTTCTCTTG 537
 QY 61 GCTTTGCTGCTCTGCTTGAAGGTTTCAACACGCGCTCAAGAGTGGCGCAATCCGGG 120
 Db 538 GCTTTGCTGCTCTGCTTGAAGGTTTCAACACGCGCTCAAGAGTGGCGCAATCCGGG 597
 QY 121 GTGATCATGTACCAACGATGTTTCAACCTCGAGCATCTTGTGATGATGAGAGGTATG 180
 Db 598 ATGATCAATGTACCAACGATGTTTCAACCTCGAGCATCTTGTGATGAGAGGTATG 657
 QY 181 ATCATGCACTAACCCGAGGTTGGCTCCCTGCGTTGCGGAGATACATCTCCGCTGCTG 240
 Db 658 ATCATGCAACCCCGGAGTGGTGGCTCCCTGCGTTGCGGAGATACATCTCCGCTGCTG 717
 QY 241 ATGGCGCTCAACCCCGAGCTTGGCGGTCAAAAAGTATGTTCCCACTTCGCGCAATCCGA 300
 Db 718 GTAGCGCTCAACCCCGAGCTTGGCGGTCAAAAAGTATGTTCCCACTTCGCGCAATCCGA 777
 QY 301 CGTACGCTCACTGCTTGTGTTGGGGGNNCCAGCTTCTGCTGATGATGATGAGGAGAC 360
 Db 778 CGCACGCTCACTGCTGTTGGGGGCGGCTGCTTCTGTTCCGCTATGATGATGAGGAGAC 837
 QY 361 CTTTGGGGTCTGCTTCTGCTGCTGCGCAAGCTATTCACCTTTTACCCCGCATCACAAT 420
 Db 838 CTCTGGCGATCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
 QY 421 ACAACGAGAGTGCAACTGCTCAATC 447
 Db 898 ACGGTGAGAGTGCAACTGCTCAATC 924

RESULT 11
 US-08-928-757-49
 ; Sequence 49, Application us/08928757
 ; Patent No. 6890737
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: BOSMAN, FONS
 ; APPLICANT: DE MARTYNOFF, GUY
 ; APPLICANT: BUYSSE, MARIE-ANGE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: NIXON & VANDERHAYE P.C.
 ; STREET: 1100 NORTH GLEBE ROAD
 ; CITY: ARLINGTON
 ; STATE: VIRGINIA
 ; COUNTRY: U.S.A.
 ; ZIP: 22201-4714
 ; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,757
FILING DATE: 12-Sep-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/612,973
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 2433 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..2430
FEATURE:
NAME/KEY: mat peptide
LOCATION: 1..2427
SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-08-928-757-49

Query Match 72.0%; Score 321.8; DB 3; Length 2433;
Best Local Similarity 81.7%; Pred. No. 9.1e-92;
Matches 365; Conservative 4; Mismatches 78; Indels 0; Gaps 0;

1 GAGCGCGTGAACATATGCAACAGGGAATCTTCCCGGTTGCTTTCTATCTTCTCTTCTG 60
478 GACGCGCGGAATATGCAACAGGGAATCTTCCCGGTTGCTTTCTATCTTCTCTTCTG 537
61 GCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
538 GCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 597
121 GTGTATCATGTACCAACGACTGTTCCAACTGAGCATCATCTATAGAGTGAACGGTATG 180
598 ATGTACCATGTACCAACGACTGTTCCAACTGAGCATCATCTATAGAGTGAACGGTATG 657
181 ATCATGCACTACCAACGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
658 ATCATGCACTACCAACGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 717
241 ATGCGGCTACCCCGAGCTTGGCGGTCAAAAYGCTAGTATCCCATGCGGCATCCGA 300
718 GTAGGCTACCCCGAGCTTGGCGGTCAAAAYGCTAGTATCCCATGCGGCATCCGA 777
301 CGTACGCTGCACTTGTGTTGGGGNNCAAGTCTGTTCCGCTATGTAAGTGGAGAC 360
778 CGCAGCTGCACTTGTGTTGGGGNNCAAGTCTGTTCCGCTATGTAAGTGGAGAC 837
361 CTTTGGGGTGTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
838 CTTGCGGATCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897
421 ACAAGCAGAGTGAATGCTCAATC 447
898 ACGGTGACGAGTGAATGCTCAATC 924

RESULT 12
US-08-483-695-30
Sequence 30, Application US/08483695
Patent No. 5866139
GENERAL INFORMATION:
APPLICANT: Brecht, Christian
APPLICANT: Krensdorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
TITLE OF INVENTION: Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,695
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-483-695-30

Query Match 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

1 GAGCGCGTGAACATATGCAACAGGGAATCTTCCCGGTTGCTTTCTATCTTCTCTTCTG 60
9 GACGCGCGGAATATGCAACAGGGAATCTTCCCGGTTGCTTTCTATCTTCTCTTCTG 68
61 GCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
69 GCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 128
121 GTGTATCATGTACCAACGACTGTTCCAACTGAGCATCATCTATAGAGTGAACGGTATG 180
129 ATATACCATGTACCAACGACTGTTCCAACTGAGCATCATCTATAGAGTGAACGGTATG 188
181 ATCATGCACTACCAACGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
189 ATCATGCACTACCAACGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
241 ATGCGGCTACCCCGAGCTTGGCGGTCAAAAYGCTAGTATCCCATGCGGCATCCGA 300

Db	249	GTAGGGCTCATCTCCACGCTGGGGGCAGGAAATGCAAGGTCCTCCCACTAGCAAAATACGA	308
Qy	301	GCTCAGCTGCATCTGCTTTTGGGGGNNCAAGTTCTGTTCGGCTATATGACGTGGGARGAC	360
Db	309	CGCCACGTCGACTTGGCTGTTTGGGGGCGGCTGCTTTTCTGCTCCGCTATGTAACGTGGGGGAT	368
Qy	361	CTTTGCGGGTCTGTCTTCTCGCTGGCCAGGCTATTACCTTTTACCCGGGATGACCAT	420
Db	369	CTCTCGGATCTGTTTCTCGCTTCCAGCTGTTCACTTCTCGCTCGCCGGCGATGAG	428
Qy	421	ACACGACGAGAGTGCACATGCTCAATC	447
Db	429	ACAGTGCAGGACTGCACATGCTCAATC	455

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RESULT 13
US-07-965-285-30
; Sequence 30, Application US/07965285
; Patent No. 3879904
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kresdorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF INVENTION: Applications
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 501 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other
; DESCRIPTION: CDNA to genomic RNA
US-07-965-285-30

Query Match: 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

Qy 1 GACGGCGTGAAGTATGCAACAGGGAAGTGGCCGGTGTCTCTTCTATCTTCCCTTG 60
Db 9 GACGGCGTGAAGTATGCAACAGGGAAGTGGCCGGTGTCTCTTCTATCTTCCCTTG 68
Qy 61 GCTTTGCTGTCCTGCTTGAAGGTTCCAAACGCTCAAGAGTGGCAAGCATCGGG 120

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Db 69 GCTTTGGCTGTCCTTTTGGACCATCCAGCTTCGGCTTATGAAGTGGCAAGTGTCCGG 128

Qy 121 GTGATCATGTGTCACCAACGACTGTTTCCACTCGAGCATCATCTATAGATGGACGGTATG 180

Db 129 ATATATACATGTGCAAGAACGACTGCTCCAACTCAAGCAATTGGTATGAGGACGGCAACTG 188

Qy 181 ATCATGCACTATCCAGGGGTGGTCCCGGCTTGGGGAGTAAACATCTCCGCTGTGG 240

Db 189 ATCATGCACTACTCCGGGTGGTGTCCCTGCTTGGGAGACMAAGCTCCCGTTGGTGG 248

Qy 241 ATGAGCGCTACCCGCCACGCTTGGCGGTCAAAAATGCTAGTGTGCCCACTTCGCGCAATCCGA 300

Db 249 GTACCGCTCACTCCCAAGCTCGCGGCAAGAAATCCAGCGTCCCACTTCAACAATATGA 308

Qy 301 CGTACCGCTCGACTGTGCTTGTGGGGGANNCAAGTTGTTCCGGCTATATAGTGGGAGC 360

Db 309 CGCAACGTGCACTTGCTCGTTGGGGCGGCTGCTTTTGTCTCCGCTATATAGCTGGGGAGAT 368

Qy 361 CTTTGGCGGCTGTGCTTTCCTCGCTGGCGCAGCTATATACCTTTTGAACCCCGAGATGACCAT 420

Db 369 CTGTCGGGATCTGTTTCTGCTGTCTCCAGCTGTTCACCTTCTGCGCTCGCGGATGAG 428

Qy 421 ACAACGACGAGAGTGCACACTGCTCAATC 447

Db 429 ACAAGTACGAGACTGCAACTGCTCAATC 455

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1      RESULT 14
2      US-08-487-231--30
3      Sequence 30, Application US/08487231
4      Patent No. 5919454
5      GENERAL INFORMATION:
6      APPLICANT: Brechot, Christian
7      APPLICANT: Kremsdorf, Dina
8      APPLICANT: Porchon, Colette
9      TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
10     TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
11     TITLE OF INVENTION: Applications
12     NUMBER OF SEQUENCES: 46
13     CORRESPONDENCE ADDRESS:
14     ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
15     ADDRESSEE: Dunner
16     STREET: 1300 I Street, N.W.
17     CITY: Washington
18     STATE: DC
19     COUNTRY: USA
20     ZIP: 20005-3315
21     COMPUTER READABLE FORM:
22     MEDIUM TYPE: Floppy disk
23     COMPUTER: IBM PC compatible
24     OPERATING SYSTEM: PC-DOS/MS-DOS
25     SOFTWARE: Patentin Release #1.0, Version #1.25
26     CURRENT APPLICATION DATA:
27     APPLICATION NUMBER: US/08/487,231
28     FILING DATE: 07-JUNE-1995
29     CLASSIFICATION: 435
30     PRIOR APPLICATION DATA:
31     APPLICATION NUMBER: US 07/965,285
32     FILING DATE: 18-MAR-1993
33     CLASSIFICATION: 435
34     PRIOR APPLICATION DATA:
35     APPLICATION NUMBER: FR 91 06 882
36     FILING DATE: 06-JUN-1991
37     ATTORNEY/AGENT INFORMATION:
38     NAME: Meyers, Kenneth J.
39     REGISTRATION NUMBER: 25,146
40     REFERENCE/DOCKET NUMBER: 05286-0001-02000
41     TELECOMMUNICATION INFORMATION:
42     TELEPHONE: 202-408-4000
43     TELEFAX: 202-408-4400
44     INFORMATION FOR SEQ ID NO: 30:
45     SEQUENCE CHARACTERISTICS:

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LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-487-231-30

Query Match 71.6%; Score 320.2; DB 2; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGCAAGAGGAACTTGGCCGGTTCCTTCTCTATCTTCTCTTG 60
DB 9 GACGGCGTGAACATGCAAGAGGAACTTGGCCGGTTCCTTCTCTATCTTCTCTTG 68
QY 61 GCTTTGCTGCTCTGCTTTCAGCGGTTCCACACACGCTCCAGAGTGGCGCAACGATCCGGG 120
DB 69 GCTTTGCTGCTCTGCTTTCAGCGGTTCCACACACGCTCCAGAGTGGCGCAACGATCCGGG 128
QY 121 GTGATCATGTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 180
DB 129 ATATACATGTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 188
QY 181 ATCATGCACTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 240
DB 189 ATCATGCACTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 248
QY 241 ATGGCGCTACCCCGACGCTTGGCGTCAAAAGCTAGTGTCCCATCTCGGCAATCCGA 300
DB 249 GTACCGCTACCTCCAGCTTCGCGGCAAGATCGACGCTCCCATCTACCAATACGA 308
QY 301 CGTACGCTGCTGCTTGTGGGGGNNCAAGTTCCTGCTGCTATGATGATGAGATG 360
DB 309 CGCACGCTGCTGCTTGTGGGGGNNCAAGTTCCTGCTGCTATGATGATGAGATG 368
QY 361 CTTTGGCGGCTGCTTCTTCCTGCTGCGGCAAGTTCATCTTTGACCCCGCATCACCAT 420
DB 369 CTCTGGCGGATCTGTTTCTCTGCTCTCCAGCTGTTTCACTTCTGCGCTCGCGGATGAG 428
QY 421 ACAACGAGAGTGCACATGCTCAATC 447
DB 429 ACAGTGACAGACTGCAACTGCTCAATC 455

RESULT 15

US-09-201-912-30
Sequence 30, Application US/09201912
Patent No. 6210962
GENERAL INFORMATION:
APPLICANT: Brecht, Christian
APPLICANT: Kremendorf, Dina
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/201,912
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,285
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-09-201-912-30

Query Match 71.6%; Score 320.2; DB 3; Length 501;
Best Local Similarity 81.4%; Pred. No. 1.4e-91;
Matches 364; Conservative 4; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATGCAAGAGGAACTTGGCCGGTTCCTTCTCTATCTTCTCTTG 60
DB 9 GACGGCGTGAACATGCAAGAGGAACTTGGCCGGTTCCTTCTCTATCTTCTCTTG 68
QY 61 GCTTTGCTGCTCTGCTTTCAGCGGTTCCACACACGCTCCAGAGTGGCGCAACGATCCGGG 120
DB 69 GCTTTGCTGCTCTGCTTTCAGCGGTTCCACACACGCTCCAGAGTGGCGCAACGATCCGGG 128
QY 121 GTGATCATGTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 180
DB 129 ATATACATGTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 188
QY 181 ATCATGCACTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 240
DB 189 ATCATGCACTACCAAGAGTGTTCACATCGAGCATCTATGATGATGAGATGATG 248
QY 241 ATGGCGCTACCCCGACGCTTGGCGTCAAAAGCTAGTGTCCCATCTCGGCAATCCGA 300
DB 249 GTACCGCTACCTCCAGCTTCGCGGCAAGATCGACGCTCCCATCTACCAATACGA 308
QY 301 CGTACGCTGCTGCTTGTGGGGGNNCAAGTTCCTGCTGCTATGATGATGAGATG 360
DB 309 CGCACGCTGCTGCTTGTGGGGGNNCAAGTTCCTGCTGCTATGATGATGAGATG 368
QY 361 CTTTGGCGGCTGCTTCTTCCTGCTGCGGCAAGTTCATCTTTGACCCCGCATCACCAT 420
DB 369 CTCTGGCGGATCTGTTTCTCTGCTCTCCAGCTGTTTCACTTCTGCGCTCGCGGATGAG 428
QY 421 ACAACGAGAGTGCACATGCTCAATC 447
DB 429 ACAGTGACAGACTGCAACTGCTCAATC 455

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Job time : 113.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 81.2663 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-5
327
Perfect score: 1 atgagcagcagctcaacc.....ctgcgccagctg99gcccc 327
Sequence:

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
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4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCNUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	293.6	89.8	573	2	US-09-194-949A-5
3	292	89.3	573	2	US-08-290-665A-116
4	292	89.3	573	6	PCT-US95-10398-116
5	288.8	88.3	549	3	US-08-441-971-64
6	288.8	88.3	549	3	US-08-221-653-64
7	288.8	88.3	549	3	US-08-442-144A-64
8	288.8	88.3	549	3	US-08-441-970-64
9	288.8	88.3	573	2	US-08-290-665A-113
10	288.8	88.3	573	2	US-08-290-665A-114
11	288.8	88.3	573	2	US-08-290-665A-115
12	288.8	88.3	573	2	US-08-290-665A-118
13	288.8	88.3	573	6	PCT-US95-10398-113
14	288.8	88.3	573	6	PCT-US95-10398-114
15	288.8	88.3	573	6	PCT-US95-10398-115
16	288.8	88.3	573	6	PCT-US95-10398-118
17	288.8	88.3	9275	3	US-10-259-275-39
18	287.8	88.0	327	3	US-08-836-075A-1
19	287.8	87.8	345	2	US-08-324-977-7
20	287.2	87.8	345	2	US-08-384-616-7
21	287.2	87.8	345	2	US-08-904-686A-7
22	287.2	87.8	345	2	US-09-315-850-7
23	287.2	87.8	573	2	US-08-290-665A-120
24	287.2	87.8	573	2	US-08-290-665A-121

25	287.2	87.8	573	6	PCT-US95-10398-120	Sequence 120, App
26	287.2	87.8	573	6	PCT-US95-10398-121	Sequence 121, App
27	287.2	87.8	685	3	US-09-690-936-37	Sequence 37, App
28	287.2	87.8	686	3	US-08-988-321B-37	Sequence 37, App
29	287.2	87.8	686	3	US-08-397-220B-25	Sequence 25, App
30	287.2	87.8	686	3	US-08-550-093C-25	Sequence 25, App
31	287.2	87.8	1167	2	US-08-324-977-9	Sequence 9, Appl
32	287.2	87.8	1167	2	US-08-384-616-9	Sequence 9, Appl
33	287.2	87.8	1167	2	US-08-304-686A-9	Sequence 9, Appl
34	287.2	87.8	1167	2	US-09-315-850-9	Sequence 9, Appl
35	287.2	87.8	1499	2	US-08-324-977-3	Sequence 3, Appl
36	287.2	87.8	1499	2	US-08-384-616-3	Sequence 3, Appl
37	287.2	87.8	1499	2	US-08-904-686A-3	Sequence 3, Appl
38	287.2	87.8	1499	3	US-09-315-850-3	Sequence 3, Appl
39	287.2	87.8	6039	2	US-08-324-977-11	Sequence 11, Appl
40	287.2	87.8	6039	2	US-08-184-616-11	Sequence 11, Appl
41	287.2	87.8	6039	2	US-08-904-686A-11	Sequence 11, Appl
42	287.2	87.8	6039	3	US-09-315-850-11	Sequence 11, Appl
43	287.2	87.8	9030	2	US-08-324-977-13	Sequence 13, Appl
44	287.2	87.8	9030	2	US-08-384-616-13	Sequence 13, Appl
45	287.2	87.8	9030	2	US-08-904-686A-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-5
Sequence 5, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-441-971-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

OY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAACCTTAACACCAACCGCCGACAG 60
DB 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAACCTTAACACCAACCGCCGACAG 60
OY 61 GACGTCAAGNTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAAGTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
OY 121 GGGCCAGATTGGTGTGTCGCGGACCAAGAAATTCTCGAGCGGTCCGACCTCTGTGAC 180
DB 121 GGGCCAGATTGGTGTGTCGCGGACCAAGAAATTCTCGAGCGGTCCGACCTCTGTGAC 180
OY 181 AGGCGACAGCTTATCTTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCCAGG 240
DB 181 AGGCGACAGCTTATCTTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCCAGG 240
OY 241 CATCCCTGGCCCTCTATATGCAATGAGGAGCTGCGGATGCGGAGTGCCTCTGTCGCC 300
DB 241 TACCCCTGGCCCTCTATATGCAATGAGGAGTATGCGGTGCGCAGATGCTCTGTCAACC 300
OY 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327

RESULT 6

US-08-221-653-64
Sequence 64, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SRO ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-221-653-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

OY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAACCTTAACACCAACCGCCGACAG 60
DB 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAACCTTAACACCAACCGCCGACAG 60
OY 61 GACGTCAAGNTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
DB 61 GACGTCAAGTCCCGGGGTGTGTCAGATCGTTGTGAGTTTACCTGTGCGCGCAGG 120
OY 121 GGGCCAGATTGGTGTGTCGCGGACCAAGAAATTCTCGAGCGGTCCGACCTCTGTGAC 180
DB 121 GGGCCAGATTGGTGTGTCGCGGACCAAGAAATTCTCGAGCGGTCCGACCTCTGTGAC 180
OY 181 AGGCGACAGCTTATCTTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCCAGG 240
DB 181 AGGCGACAGCTTATCTTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCCAGG 240
OY 241 CATCCCTGGCCCTCTATATGCAATGAGGAGCTGCGGATGCGGAGTGCCTCTGTCGCC 300
DB 241 TACCCCTGGCCCTCTATATGCAATGAGGAGTATGCGGTGCGCAGATGCTCTGTCAACC 300
OY 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327

RESULT 7

US-08-442-144A-64
Sequence 64, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-442-144A-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGAACTCTTAACTCAAGAAACCAAGTAACCAACCGCGCCACAG 60
DB 1 ATGAGCAGAACTCTTAACTCAAGAAACCAAGTAACCAACCGCGCCACAG 60
QY 61 GACGTCAAGTCCCGGGTGTGTGATCGTGTGTGAGTTTACCTGTTCGCGCAGG 120
DB 61 GACGTCAAGTCCCGGGTGTGTGATCGTGTGTGAGTTTACCTGTTCGCGCAGG 120
QY 121 GGGCCAGGTGGTGTGTGCGCGGACCAAGAAATTTCGAGCGGTGCCAGCTGTGTAC 180
DB 121 GGGCCAGGTGGTGTGTGCGCGGACCAAGAAATTTCGAGCGGTGCCAGCTGTGTGA 180
QY 181 AGGCGACAGCTATCTTAAAGCTGCGAGTCCGATGAGCAAGTCTGAGCTCAGCAGG 240
DB 181 AGGCGACAGCTATCTTAAAGCTGCGAGTCCGATGAGCAAGTCTGAGCTCAGCAGG 240
QY 241 CATCCCTGCCCCCTTATATGAGCAATGAGGCTGCGGATGGGCGGAGTGGCTCTGTCCCC 300
DB 241 TACCCCTGCCCCCTTATATGAGCAATGAGGCTGCGGATGGGCGGAGTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327

RESULT 8
US-08-441-970-64
Sequence 64, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 115
US-08-441-970-64

Query Match 88.3%; Score 288.8; DB 3; Length 549;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGAACTCTTAACTCAAGAAACCAAGTAACCAACCGCGCCACAG 60
DB 1 ATGAGCAGAACTCTTAACTCAAGAAACCAAGTAACCAACCGCGCCACAG 60
QY 61 GACGTCAAGTCCCGGGTGTGTGATCGTGTGTGAGTTTACCTGTTCGCGCAGG 120
DB 61 GACGTCAAGTCCCGGGTGTGTGATCGTGTGTGAGTTTACCTGTTCGCGCAGG 120
QY 121 GGGCCAGGTGGTGTGTGCGCGGACCAAGAAATTTCGAGCGGTGCCAGCTGTGTAC 180
DB 121 GGGCCAGGTGGTGTGTGCGCGGACCAAGAAATTTCGAGCGGTGCCAGCTGTGTGA 180
QY 181 AGGCGACAGCTATCTTAAAGCTGCGAGTCCGATGAGCAAGTCTGAGCTCAGCAGG 240
DB 181 AGGCGACAGCTATCTTAAAGCTGCGAGTCCGATGAGCAAGTCTGAGCTCAGCAGG 240
QY 241 CATCCCTGCCCCCTTATATGAGCAATGAGGCTGCGGATGGGCGGAGTGGCTCTGTCCCC 300
DB 241 TACCCCTGCCCCCTTATATGAGCAATGAGGCTGCGGATGGGCGGAGTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCAAGTTGGGGCCCC 327

RESULT 9
US-08-290-665A-113
Sequence 113, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BURK, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK

COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 113:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: P10
US-08-290-665A-113

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGACGACGATCTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
DB 1 ATGACGACGATCTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGAGTCCCGGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 120
DB 61 GACGTCAGAGTCCCGGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 120
QY 121 GGGCCAGGTGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 180
DB 121 GGGCCAGGTGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 180
QY 181 AGGCGACAGCCTATTCTTAAGGCTCGCACTCCGATGCGAGNNCTGGGGCTCAAGCAGG 240
DB 181 AGGCGACAGCCTATTCTTAAGGCTCGCACTCCGATGCGAGNNCTGGGGCTCAAGCAGG 240
QY 241 CATCCCTGGCCCCCTCTATAGGCAATGAGGGCTGCGGATGGGGGAGATGGCTCTGTCAACC 300
DB 241 TACCTTGGCCCCCTCTATAGGCAATGAGGGCTTGGGGTGGGCAAGATGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCGCAGTTGGGGCCCC 327
DB 301 CGTGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 10
US-08-290-665A-114
Sequence 114, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 114:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK1
US-08-290-665A-114

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGACGACGATCTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
DB 1 ATGACGACGATCTCTAAACCTCAAGAAAAACCAACGTAACCAACCGCCGCCACAG 60
QY 61 GACGTCAGAGTCCCGGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 120
DB 61 GACGTCAGAGTCCCGGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 120
QY 121 GGGCCAGGTGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 180
DB 121 GGGCCAGGTGGGTGTGTGCGCGACGAGAAAGACTTCGAGCGGTGCGACGCTGTGAC 180
QY 181 AGGCGACAGCCTATTCTTAAGGCTCGCACTCCGATGCGAGNNCTGGGGCTCAAGCAGG 240
DB 181 AGGCGACAGCCTATTCTTAAGGCTCGCACTCCGATGCGAGNNCTGGGGCTCAAGCAGG 240
QY 241 CATCCCTGGCCCCCTCTATAGGCAATGAGGGCTGCGGATGGGGGAGATGGCTCTGTCAACC 300
DB 241 TACCTTGGCCCCCTCTATAGGCAATGAGGGCATGGGGTGGGCAAGATGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCCCGCAGTTGGGGCCCC 327
DB 301 CGCGGCTCTCGGCCCTAGTTGGGGCCCC 327

RESULT 11
US-08-290-665A-115
Sequence 115, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELE: 421792
INFORMATION FOR SEQ ID NO: 115:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: T10
US-08-290-665A-115

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCCAAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCCAAG 60
QY 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
Db 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAG 120
QY 121 GCGCCAGATTGGGTGGTGGCGGCGACCAAGAAAGATTCCGAGCGGTCCGACCTGTG 180
Db 121 GCGCCAGATTGGGTGGTGGCGGCGACCAAGAAAGATTCCGAGCGGTCCGACCTGTG 180
QY 181 AGGCGACAGCCTATCTCTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCAGG 240
Db 181 AGGCGACAGCCTATCTCTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCAGG 240
QY 241 CATCCCTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGCGGAGTGGCTCTGTCCCC 300
Db 241 TACCTTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGCGGAGTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCGCCAGTTGGGCCCC 327
Db 301 CGTGGCTCCCGCCTAAGTTGGGCCCC 327

RESULT 12
US-08-290-665A-118
Sequence 118, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELE: 421792
INFORMATION FOR SEQ ID NO: 118:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: IND8
US-08-290-665A-118

Query Match 88.3%; Score 288.8; DB 2; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCCAAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAACTTAACACCAACCGCGCCCAAG 60
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Db 61 GACGTCAAGTCCCGGGTGGTGCAGATCGTTGGTGAAGTTTACCTGTGCGCGCAGG 120
QY 121 GCGCCAGATTGGGTGGTGGCGGCGACCAAGAAAGATTCCGAGCGGTCCGACCTGTG 180
Db 121 GCGCCAGATTGGGTGGTGGCGGCGACCAAGAAAGATTCCGAGCGGTCCGACCTGTG 180
QY 181 AGGCGACAGCCTATCTCTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCAGG 240
Db 181 AGGCGACAGCCTATCTCTAAGGCTCGCCAGTCCGATGCGAGNNCTGGGCTCAGCAGG 240
QY 241 CATCCCTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGCGGAGTGGCTCTGTCCCC 300
Db 241 CACCTTGGCCCTCTATGAGCAATGAGGAGTGGGATGGGCGGAGTGGCTCTGTCAACC 300
QY 301 CGCGGCTCTCGGCGCCAGTTGGGCCCC 327
Db 301 CGCGGCTCTCGGCGCCAGTTGGGCCCC 327

RESULT 13
PCT-US95-10398-113

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; Sequence 113, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: P10
; PCT-US95-10398-113

Query Match      88.3%; Score 288.8; DB 6; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
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Qy      301 CGCGCTCTCGGCCCACTGAGGCGCC 327
Db      301 CGTGGCTCTCGGCTAGTGGGCGCC 327

RESULT 14
PCT-US95-10398-114
; Sequence 114, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DX1
; PCT-US95-10398-114

Query Match      88.3%; Score 288.8; DB 6; Length 573;
Best Local Similarity 92.4%; Pred. No. 4.8e-78;
Matches 302; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-7

Perfect score: 447

Sequence: 1 gacggcgctgacctgacac.....aggagctcaactgctcaatc 447

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued_Patents_NA.*
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3: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
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9: /cgn2_6/ptodata/1/ina/backfilest.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	446.6	99.9	447	3	US-08-836-075A-7
2	372.6	83.4	447	3	US-08-836-075A-3
3	312.2	69.8	633	3	US-08-612-973-7
4	312.2	69.8	633	3	US-08-927-597-7
5	312.2	69.8	633	3	US-08-928-757-7
6	312.2	69.8	1037	2	US-08-462-195-1
7	312.2	69.8	1037	2	US-08-636-883-1
8	312.2	69.8	1037	3	US-09-127-829-1
9	310.6	69.5	501	2	US-08-483-695-28
10	310.6	69.5	501	2	US-07-965-285-28
11	310.6	69.5	501	2	US-08-487-231-28
12	310.6	69.5	501	3	US-09-201-912-28
13	310.6	69.5	795	3	US-08-612-973-5
14	310.6	69.5	795	3	US-08-927-597-5
15	310.6	69.5	795	3	US-08-928-757-5
16	310.6	69.5	2082	3	US-08-612-973-47
17	310.6	69.5	2082	3	US-08-927-597-47
18	310.6	69.5	2082	3	US-08-928-757-47
19	310.6	69.5	2433	3	US-08-612-973-49
20	310.6	69.5	2433	3	US-08-927-597-49
21	310.6	69.5	2433	3	US-08-928-757-49
22	307.4	68.8	636	3	US-08-612-973-13
23	307.4	68.8	636	3	US-08-927-597-13
24	307.4	68.8	636	3	US-08-928-757-13

25	307.4	68.8	742	2	US-08-081-072-18	Sequence 18, Appl
26	307.4	68.8	742	2	US-08-449-093A-18	Sequence 18, Appl
27	307.4	68.8	932	2	US-08-081-072-15	Sequence 15, Appl
28	307.4	68.8	932	2	US-08-449-093A-15	Sequence 15, Appl
29	305.8	68.4	9472	3	US-08-150-204E-96	Sequence 96, Appl
30	304.2	68.1	501	2	US-08-483-695-30	Sequence 30, Appl
31	304.2	68.1	501	2	US-07-965-285-30	Sequence 30, Appl
32	304.2	68.1	501	2	US-08-487-231-30	Sequence 30, Appl
33	304.2	68.1	501	3	US-09-201-912-30	Sequence 30, Appl
34	304.2	68.1	1539	2	US-08-470-426B-17	Sequence 17, Appl
35	304.2	68.1	1863	2	US-08-470-426B-14	Sequence 14, Appl
36	303.2	67.8	11076	3	US-09-539-601-1	Sequence 1, Appl
37	303.2	67.8	11076	3	US-09-539-601-19	Sequence 19, Appl
38	303.2	67.8	11076	3	US-09-539-601-25	Sequence 25, Appl
39	303.2	67.8	11076	3	US-09-539-601-31	Sequence 31, Appl
40	301	67.3	2116	3	US-08-191-160-21	Sequence 21, Appl
41	294.6	65.9	9413	3	US-09-827-688-6	Sequence 6, Appl
42	294.6	65.9	9595	3	US-09-014-416-4	Sequence 4, Appl
43	294.6	65.9	9599	3	US-09-014-416-6	Sequence 6, Appl
44	289.8	64.8	9275	3	US-10-259-275-39	Sequence 39, Appl
45	288.2	64.5	1037	2	US-08-462-195-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-7
Sequence 7, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
ATTORNEY/AGENT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKER
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-7

Query Match 99.9%; Score 446.6; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 3.9e-144;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GAGGCGGTGAATCTGACAGAGGAATTGCTGTTCTTCTCTATCTTCTCTTA 60
QY 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
   |||
Db 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
QY 121 GTATATCATCTCACCATATGATCTGTTCCAACTGAGCATCATCTATGAGATGATG 180
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Db 121 GTATATCATCTCACCATATGATCTGTTCCAACTGAGCATCATCTATGAGATGATG 180
QY 181 ATCTTGACGCGCCAGGGTGTGCGCTGCGGTGGGAGAACACTCTTCTGTTGCTGG 240
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Db 181 ATCTTGACGCGCCAGGGTGTGCGCTGCGGTGGGAGAACACTCTTCTGTTGCTGG 240
QY 241 ATGCCRCTACCCCAAGGCTTGCAGTCAAGACGCTATATGCTTACTGCGGCAATCGA 300
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Db 241 ATGCCRCTACCCCAAGGCTTGCAGTCAAGACGCTATATGCTTACTGCGGCAATCGA 300
QY 301 CGCCATGTGACTGCTGCTGTTGGAGACGCGCGTTTCTTCCGCTATATGATGAGTGG 360
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Db 301 CGCCATGTGACTGCTGCTGTTGGAGACGCGCGTTTCTTCCGCTATATGATGAGTGG 360
QY 361 CTGCGCGATCGCTTCTTCTGTTGGGAGACGCGCGTTTCTTCCGCTATATGATGAGT 420
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Db 361 CTGCGCGATCGCTTCTTCTGTTGGGAGACGCGCGTTTCTTCCGCTATATGATGAGT 420
QY 421 ACAACACAGAGTGCATGCTCAATC 447
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Db 421 ACAACACAGAGTGCATGCTCAATC 447
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RESULT 2
US-08-836-075A-3
Sequence 3, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ. ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-3

Query Match 83.4%; Score 372.6; DB 3; Length 447;
Best Local Similarity 88.6%; Pred. No. 1.6e-118;
Matches 396; Conservative 5; Mismatches 46; Indels 0; Gaps 0;

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Db 1 GAGGCGGTGAATCTGACAGAGGAATTGCTGTTCTTCTCTATCTTCTCTTA 60
QY 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
   |||
Db 61 GCTTTTCTGCTGCTGTTGACGGTTCCAACTACCGCTCATGAGTGGCAACGATCCGG 120
QY 121 GTATATCATCTCACCATATGATCTGTTCCAACTGAGCATCATCTATGAGATGATG 180
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Db 121 GTATATCATCTCACCATATGATCTGTTCCAACTGAGCATCATCTATGAGATGATG 180
QY 181 ATCTTGACGCGCCAGGGTGTGCGCTGCGGTGGGAGAACACTCTTCTGTTGCTGG 240
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Db 181 ATCTTGACGCGCCAGGGTGTGCGCTGCGGTGGGAGAACACTCTTCTGTTGCTGG 240
QY 241 ATGCCRCTACCCCAAGGCTTGCAGTCAAGACGCTATATGCTTACTGCGGCAATCGA 300
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Db 241 ATGCCRCTACCCCAAGGCTTGCAGTCAAGACGCTATATGCTTACTGCGGCAATCGA 300
QY 301 CGCCATGTGACTGCTGCTGTTGGAGACGCGCGTTTCTTCCGCTATATGATGAGTGG 360
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Db 301 CGCCATGTGACTGCTGCTGTTGGAGACGCGCGTTTCTTCCGCTATATGATGAGTGG 360
QY 361 CTGCGCGATCGCTTCTTCTGTTGGGAGACGCGCGTTTCTTCCGCTATATGATGAGT 420
   |||
Db 361 CTGCGCGATCGCTTCTTCTGTTGGGAGACGCGCGTTTCTTCCGCTATATGATGAGT 420
QY 421 ACAACACAGAGTGCATGCTCAATC 447
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Db 421 ACAACACAGAGTGCATGCTCAATC 447
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RESULT 3
US-08-612-973-7
Sequence 7, Application US/08612973
Patent No. 6150134
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUYSSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHAYE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/612,973
FILING DATE: 11-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..630
NAME/KEY: mat_peptide
LOCATION: 1..627
US-08-612-973-7

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Query Match      69.8%; Score 312.2; DB 3; Length 633;
Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACCTATGCAAGAGGAAATTTGCTGTTGCTTCTCTATCTTCTCTTA 60
DB 127 GACGGCGTGAACCTATGCAAGAGGAAATTTGCTGTTGCTTCTCTATCTTCTCTTA 186
QY 61 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGGG 120
DB 187 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGGG 246
QY 121 GTATATCATCTCAACATGATGTTCCAACTGAGCATCTATATGAGATGAGTGAAG 180
DB 247 ATGTACCATGTCAAGAAAGCACTGCTCCAACTCAAGCATGTGTATGAGGAGCGGACATG 306
QY 181 ATCTTGACGCGCCCAAGGAGTGTGCTGCTGCGGTTGCGGAGAACACTCTTCTGTTGCTGG 240
DB 307 ATCATGCAACACCCCGGAGTGTGCTGCTGCGGTTGCGGAGAACACTCTTCTGTTGCTGG 366
QY 241 ATGCGCTCAACCCCAAGGCTTGGCGTCAAGAGCATATATGCTTCTACTGCGCAATCCDA 300
DB 367 GTACGGCTCAACCCCAAGGCTTGGCGTCAAGAGCATATATGCTTCTACTGCGCAATCCDA 426
QY 301 CGCATGTCACTGCTGTTGGAGACAGCGCGTTTGGTTCCGTATGATGATGAGTGGAGAC 360
DB 427 CGCATGTCACTGCTGTTGGAGACAGCGCGTTTGGTTCCGTATGATGATGAGTGGAGAC 486
QY 361 CTCTGGCGATCGCTTCTGTTGCGGAGCATATTCACCTTTTACCCCGCTTGTACCAT 420
DB 487 CTCTGGCGATCGCTTCTGTTGCGGAGCATATTCACCTTTTACCCCGCTTGTACCAT 546
QY 421 ACAACACAGAGTCAACTGCTCAATC 447
DB 547 ACGGTGACAGCATCAATGCTCAATC 573

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RESULT 4
US-08-927-597-7
Sequence 7, Application US/08927597

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Patent No. 6245503
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: BOSMAN, FONS
APPLICANT: DE MARTYNOFF, GUY
APPLICANT: BUUSE, MARIE-ANGE
TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHIE P.C.
STREET: 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/927,597
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/612,973
FILING DATE: 11-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BYRNE, THOMAS E.
REGISTRATION NUMBER: 32,205
REFERENCE/DOCKET NUMBER: 1487-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..630
NAME/KEY: mat_peptide
LOCATION: 1..627
US-08-927-597-7

Query Match      69.8%; Score 312.2; DB 3; Length 633;
Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACCTATGCAAGAGGAAATTTGCTGTTGCTTCTCTATCTTCTCTTA 60
DB 127 GACGGCGTGAACCTATGCAAGAGGAAATTTGCTGTTGCTTCTCTATCTTCTCTTA 186
QY 61 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGGG 120
DB 187 GCTTTTCTGCTCTGCTTGAAGGTTCCAACTACGCTCAAGAGTGCGCAAGCATCCGGG 246
QY 121 GTATATCATCTCAACATGATGTTCCAACTGAGCATCTATATGAGATGAGTGAAG 180
DB 247 ATGTACCATGTCAAGAAAGCACTGCTCCAACTCAAGCATGTGTATGAGGAGCGGACATG 306
QY 181 ATCTTGACGCGCCCAAGGAGTGTGCTGCTGCGGTTGCGGAGAACACTCTTCTGTTGCTGG 240
DB 307 ATCATGCAACACCCCGGAGTGTGCTGCTGCGGTTGCGGAGAACACTCTTCTGTTGCTGG 366
QY 241 ATGCGCTCAACCCCAAGGCTTGGCGTCAAGAGCATATATGCTTCTACTGCGCAATCCDA 300

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Db 367 GTAGCGCTCACCCGAGCTGAGAGTGAACGACGCTCCCACTACGACATACGA 426
Qy 301 CGCCATGTGACTTGCTGCTGTGGAGACCGCGTTTCTTCCGCTATATAGTGGGGAC 360
Db 427 CGCCACGTGATTTGCTGTGGGGCGGCTCTTCTGTTCGGCTATATAGTGGGGAT 486
Qy 361 CTGCGCGATCGCTTCTTGTGGCGAGCTATTCACCTTTTACCCCGCTTGACCAT 420
Db 487 CTGCGGATCTGTCTTCTGCTCCGAGCTGTTCACCATCTGCTTGGCGGATGAG 546
Qy 421 ACAACACAGAGTGCACCTGCTCATC 447
Db 547 ACGGTGACGAGCTGCAATTGCTCATC 573

RESULT 5
US-08-928-757-7
; Sequence 7, Application US/08928757
; Patent No. 6890737
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHAYE P. C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/928,757
; FILING DATE: 12-Sep-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4000
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 633 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..630
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..627
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-08-928-757-7

Query Match 69.8%; Score 312.2; DB 3; Length 633;

Best Local Similarity 81.0%; Pred. No. 1.5e-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

Qy 1 GAGCGGTGAACATATGCAACAAGGAATTTGCTGTGCTCTTCTTATCTTCTCTTA 60
Db 127 GAGCGGTGAACATATGCAACAAGGAATTTGCTGTGCTCTTCTTATCTTCTT 186
Qy 61 GCTTTTGTGCTGTGCTGAGGTTTCCAACTACCGCTCATAGAGTGGCAACGATCCGG 120
Db 187 GCTTTTGTGCTGTGCTGAGGTTTCCAACTACCGCTCATAGAGTGGCAACGATCCGG 246
Qy 121 GTATATCATCTCAACAAATGACTGTTCACCTGAGCATATCATATGATGAGTGTGAT 180
Db 247 ATGTACATGTACAGAAACGACTGTCCAACTCAAGACTGTGTATGATGAGGAGGACATG 306
Qy 181 ATCTTGACGCCCCGAGGAGTGTGCTGCTGCTTCCGAGAAACAATTTCTGTTGTGG 240
Db 307 ATCATGACACACCCCGGAGTGTGCTGCTGCTTCCGAGAAACAATTTCTGTTGTGG 366
Qy 241 ATGCGCTCACCCCGAGCTTGGCGTCAAGACGCTATATGCTTACTGCGGCAATCCGA 300
Db 367 GTAGCGCTCACCCCGAGCTTGGCGTCAAGACGCTATATGCTTACTGCGGCAATCCGA 426
Qy 301 CGCCATGTGACTTGCTGCTGTGGAGACCGCGTTTCTTCCGCTATATAGTGGGGAC 360
Db 427 CGCCACGTGATTTGCTGTGGGGCGGCTGCTTCTGTTCCGCTATATAGTGGGGAT 486
Qy 361 CTGCGCGATCGCTTCTTGTGGCGAGCTATTCACCTTTTACCCCGCTTGACCAT 420
Db 487 CTGCGGATCTGTCTTCTGCTCCGAGCTGTTCACCATCTGCTTGGCGGATGAG 546
Qy 421 ACAACACAGAGTGCACCTGCTCATC 447
Db 547 ACGGTGACGAGCTGCAATTGCTCATC 573

RESULT 6
US-08-462-195-1
; Sequence 1, Application US/08462195
; Patent No. 5789544
; GENERAL INFORMATION:
; APPLICANT: MIYAMURA, TATSUO
; APPLICANT: SAITO, IZUMU
; APPLICANT: MATSURA, YOSHIMARU
; APPLICANT: HONDA, YOSHIKAZU
; APPLICANT: SEKI, MAKOTO
; TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF
; HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OHLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; STREET: 1755 S. Jefferson Davis Highway, Suite 400
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,195
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/446,303
; FILING DATE: 22-MAY-1995
; APPLICATION NUMBER: US 08/074,584
; FILING DATE: 11-JUN-1993
; APPLICATION NUMBER: JP 152487/1992
; FILING DATE: 11-JUN-1992

ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 5789544man F.
 REGISTRATION NUMBER: 24, 618
 REFERENCE/DOCKET NUMBER: 4169-003-0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELE: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1037 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis C virus
 IMMEDIATE SOURCE:
 CLONE: pUC010
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 17..1036
 US-08-462-195-1

Query Match 69.8%; Score 312.2; DB 2; Length 1037;
 Best Local Similarity 81.0%; Pred. No. 2e-97;
 Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GAGGCGTGAACATGCAAGGAAATTTGCTGTTCTTCTATCTTCTCTTA 60
 DB 494 GAGGCGTGAACATGCAAGGAAATTTGCTGTTCTTCTATCTTCTCTTA 553
 QY 61 GCTTTTCTGCTGCTTGAAGGTTTCACTACCGCTCATAGAGTGGCAATCCGGG 120
 DB 554 GCTCTGCTGCTGCTTGAAGGTTTCACTACCGCTCATAGAGTGGCAATCCGGG 613
 QY 121 GTATATATCTACCAATGACTGTTTCACTGAGCACTCATATGATGATGATG 180
 DB 614 ATATACCATGTCAAAAGACTGCTCACTCACTCACTGATGATGATGATG 673
 QY 181 ATCTTGACGCCCCAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 674 ATCATGATGCCCCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 733
 QY 241 ATGCTCTACCCCCAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 734 GTAGCGCTCACTCCCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 793
 QY 301 CGCATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 794 CGCATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 853
 QY 361 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 854 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 913
 QY 421 ACAACACAGAGTCACTGCTCAATC 447
 DB 914 ACAGTACAGAGTCACTGCTCAATC 940

RESULT 7
 US-08-636-883-1
 Sequence 1, Application US/08636883
 Patent No. 5830691
 GENERAL INFORMATION:
 APPLICANT: MIYAMURA, TATSUO
 APPLICANT: SAITO, IZUMI
 APPLICANT: MATSURA, YOSHIMARU
 APPLICANT: HONDA, YOSHIKAZU
 APPLICANT: SEKI, MAKOTO
 TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF

TITLE OF INVENTION: HEPATITIS C VIRUS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
 ADDRESS: P.C.
 STREET: 1755 S. Jefferson Davis Highway, Suite 400
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/636, 883
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/446, 303
 FILING DATE:
 APPLICATION NUMBER: US 08/074, 584
 FILING DATE: 11-JUN-1993
 APPLICATION NUMBER: JP 152487/1992
 FILING DATE: 11-JUN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Oblon, No. 5830691man F.
 REGISTRATION NUMBER: 24, 618
 REFERENCE/DOCKET NUMBER: 4169-003-0
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 413-3000
 TELEFAX: (703) 413-2220
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1037 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Hepatitis C virus
 IMMEDIATE SOURCE:
 CLONE: pUC010
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 17..1036
 US-08-636-883-1

Query Match 69.8%; Score 312.2; DB 2; Length 1037;
 Best Local Similarity 81.0%; Pred. No. 2e-97;
 Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

QY 1 GAGGCGTGAACATGCAAGGAAATTTGCTGTTCTTCTATCTTCTCTTA 60
 DB 494 GAGGCGTGAACATGCAAGGAAATTTGCTGTTCTTCTATCTTCTCTTA 553
 QY 61 GCTTTTCTGCTGCTTGAAGGTTTCACTACCGCTCATAGAGTGGCAATCCGGG 120
 DB 554 GCTCTGCTGCTGCTTGAAGGTTTCACTACCGCTCATAGAGTGGCAATCCGGG 613
 QY 121 GTATATATCTACCAATGACTGTTTCACTGAGCACTCATATGATGATGATG 180
 DB 614 ATATACCATGTCAAAAGACTGCTCACTCACTCACTGATGATGATGATG 673
 QY 181 ATCTTGACGCCCCAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 674 ATCATGATGCCCCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 733
 QY 241 ATGCTCTACCCCCAGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 734 GTAGCGCTCACTCCCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 793

Dh 734 GTAGCGCTACTCCACGCTCGCGCCAGATGCAAGCTGCCCACTACGACATTACGA 793
Qy 301 CGCCATGCGACTGCTGCTGGAGACGCCGCTTCTCCGTATGATGAGGGGAC 360
Dh 794 CGCCACGTCGACTGCTGCTGGAGACGCGCTTCTGCTCCGCTATGATGAGGGGAT 853
Qy 361 CTCTGCGGATCCGCTTCTGCTGGAGACGCTTCTGCTCCGCTATGATGAGGGGAT 420
Dh 854 CTCTGCGGATCTGTTTCTCTCATCTCCAGCTGTTCACTTCTGCGCTCGCGGATGAG 913
Qy 421 ACAACACAGAGTGCATGCTCAATC 447
Dh 914 ACAGTACAGAGTGCATGCTCAATC 940

RESULT 8
US-09-127-829-1
Sequence 1, Application US/09127829
Patent No. 6063904
GENERAL INFORMATION:
APPLICANT: MIYAMURA, TATSUO
APPLICANT: SAITO, IZUMU
APPLICANT: MATSURA, YOSHIHARU
APPLICANT: HONDA, YOSHIKAZU
APPLICANT: SEKI, MAKOTO
TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF
TITLE OF INVENTION: HEPATITIS C VIRUS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127,829
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/446,303
FILING DATE:
APPLICATION NUMBER: US 08/074,584
FILING DATE: 11-JUN-1993
APPLICATION NUMBER: JP 152487/1992
FILING DATE: 11-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 6063904man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 4169-003-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1037 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Hepatitis C virus
IMMEDIATE SOURCE:
CLONE: pUC010
FEATURE:

NAME/KEY: CDS
LOCATION: 17..1036
US-09-127-829-1
Query Match 69.8%; Score 312.2; DB 3; Length 1037;
Best Local Similarity 81.0%; Pred. No. 26-97;
Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;
Qy 1 GAGGCGGTGAACATGCAAGAGGAATTGGCTGGTTGGCTTCTCTATCTTCCCTTA 60
Dh 494 GAGGCGGTGAACATGCAAGAGGAATTGGCTGGTTGGCTTCTCTATCTTCCCTTA 553
Qy 61 GCTTTCTGCTCTGCTTGAAGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCGGG 120
Dh 554 GCTCTGCTGCTCTGCTTGAAGGTTCCAACTACCGCTCATAGAGTGGCAAGCATCGGG 613
Qy 121 GATATATATCTACCAATGACTGTTCCAACTGAGCATATCTATGATGAGTGTATG 180
Dh 614 ATATACCATGTCAAAACGACTGCTCAAGCATTTGTATGAGGCGCGGACGTG 673
Qy 181 ATCTTGACGCGCCAGGATGATGCTGCTGCTGCGGAGAAACAATCTTCTGTTGCTGG 240
Dh 674 ATATGATATGCCCCCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 723
Qy 241 ATGCGCTCAACCCCAAGCTTGGCGTCAAGAGCTAATGCTTCCCTACTGGGCAATCGA 300
Dh 734 GTAGCGCTACTCCACGCTCGCGGCGAGGAATGCAAGCTCCCACTACGACATTACGA 793
Qy 301 CGCCATGCGACTGCTGCTGGAGACGCGCTTCTGCTCCGCTATGATGAGGGGAC 360
Dh 794 CGCCACGTCGACTGCTGCTGGAGACGCGCTTCTGCTCCGCTATGATGAGGGGAT 853
Qy 361 CTCTGCGGATCCGCTTCTGCTGGAGACGCTTCTGCTCCGCTATGATGAGGGGAT 420
Dh 854 CTCTGCGGATCTGTTTCTCTCATCTCCAGCTGTTCACTTCTGCGCTCGCGGATGAG 913
Qy 421 ACAACACAGAGTGCATGCTCAATC 447
Dh 914 ACAGTACAGAGTGCATGCTCAATC 940

RESULT 9
US-08-483-695-28
Sequence 28, Application US/08483695
Patent No. 5866139
GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremsdorff, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fimegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,695
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/965,285
FILING DATE: 18-MAR-1993

APPLICATION NUMBER: FR 91 06 882
 FILING DATE: 06-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 05286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4400
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Other
 DESCRIPTION: CDNA to genomic RNA
 US-08-483-695-28

Query Match 69.5%; Score 310.6; DB 2; Length 501;
 Best Local Similarity 80.8%; Pred. No. 4.8e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGCGTGAACATGACAGGAAATTGCTGTTCTCTATCTTCTCTTA 60
 DB 9 GACGCGTGAACATGACAGGAAATTGCTGTTCTCTATCTTCTCTTA 68
 QY 61 GCTTTCTGCTGTTGACGGTTCACCTACCGCTCAGAGTGGCAAGCATCCGG 120
 DB 69 GCTGCTGCTGTTGACGGTTCACCTACCGCTCAGAGTGGCAAGCATCCGG 128
 QY 121 GTATATCATCTACCAATGATGCTTCCACTGAGCATCATCTATAGATGATGATG 180
 DB 129 ATATACATGTCACAAAGATGCTTCCACTGAGCATCTATAGATGATGATG 188
 QY 181 ATCTTGACGCCCCAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 189 ATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
 QY 241 ATGCGCTCACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 249 GTACGCTCACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 308
 QY 301 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 309 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
 QY 361 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 369 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 428
 QY 421 ACAACACAGAGTGAATGCTCAATC 447
 DB 429 ACAGTACAGAGTGAATGCTCAATC 455

RESULT 10
 US-07-965-285-28

; Sequence 28, Application US/07965285
 ; Patent No. 5879304
 ; GENERAL INFORMATION:
 ; APPLICANT: Brechot, Christian
 ; APPLICANT: Kremendorf, Dina
 ; APPLICANT: Porchon, Colette
 ; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
 ; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
 ; NUMBER OF SEQUENCES: 46
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Pinnesan, Henderson, Farabow, Garrett &
 ; ADDRESS: 1300 I Street, N.W.
 ; CITY: Washington

STATE: DC
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/965,285
 FILING DATE: 18-MAR-1993
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 91 06 882
 FILING DATE: 06-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 05286-0001-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-408-4400
 TELEFAX: 202-408-4400
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 501 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Other
 DESCRIPTION: CDNA to genomic RNA
 US-07-965-285-28

Query Match 69.5%; Score 310.6; DB 2; Length 501;
 Best Local Similarity 80.8%; Pred. No. 4.8e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGCGTGAACATGACAGGAAATTGCTGTTGCTCTTCTCTATCTTCTCTTA 60
 DB 9 GACGCGTGAACATGACAGGAAATTGCTGTTGCTCTTCTCTATCTTCTCTTA 68
 QY 61 GCTTTCTGCTGTTGACGGTTCACCTACCGCTCAGAGTGGCAAGCATCCGG 120
 DB 69 GCTGCTGCTGTTGACGGTTCACCTACCGCTCAGAGTGGCAAGCATCCGG 128
 QY 121 GTATATCATCTACCAATGATGCTTCCACTGAGCATCATCTATAGATGATGATG 180
 DB 129 ATATACATGTCACAAAGATGCTTCCACTGAGCATCTATAGATGATGATG 188
 QY 181 ATCTTGACGCCCCAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 189 ATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 248
 QY 241 ATGCGCTCACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 249 GTACGCTCACCCCAAGGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 308
 QY 301 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 309 CGCCATGTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 368
 QY 361 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 369 CTCTGCGGATCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 428
 QY 421 ACAACACAGAGTGAATGCTCAATC 447
 DB 429 ACAGTACAGAGTGAATGCTCAATC 455

RESULT 11

US-08-487-231-28
 ; Sequence 28, Application US/08487231
 ; Patent No. 5919454

GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
TITLE OF INVENTION: Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,231
FILING DATE: 07-JUNE-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/965,285
FILING DATE: 18-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 91 06 882
FILING DATE: 06-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-08-487-231-28
Query Match 69.5%; Score 310.6; DB 2; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAATGACATGACAGAGGAATTGCTGCTCTCTTCTATCTTCTCTTA 60
DB 9 GACGGCGTGAATGACATGACAGAGGAATTGCTGCTCTCTTCTATCTTCTCTTG 68
QY 61 GCTTTCTGCTGCTGTTGACGGTTTCACTACCGCTCATGAGTGGCGAAGCATCCGGG 120
DB 69 GCTGCTGCTGCTGTTTGAACATCCACCTTCGGCTTGAAGTGGCGAAGCATCCGGG 128
QY 121 GATATCATCTCACCATGATGCTTCAACTGACATCATCTATGATGATGATGATG 180
DB 129 ATATACATGTCACAAAGCATGCTTCAACTGACATGATGATGATGATGATGATG 188
QY 181 ATCTTGACAGCCCGAGGGTGTGCTGCGTTCGGAGAACAACTCTTCTGTTGCTGG 240
DB 189 ATCATGCAATGCCCCGGGGTGTGCTGCGTTCGGAGAACAACTCTTCTGTTGCTGG 248
QY 241 ATGCTCTACCCCGACAGCTTGGCGTCAAGACGCTAATGCTTCTTCTGCGGCAATCCGA 300
DB 249 GTAGGCTACATCCACAGCTGCGGGCAGGAATGCGAGTCCCATACGACATTAAGA 308

QY 301 CGCATGTGACATGCTGCTGTTGGAGACCGCGTTTCGTTCCGCTATGATGATGATGATG 360
DB 309 CGCCACTGCATCTGCTGCTGTTGGAGCGCTGCTTTCGCTCCGCTATGATGATGATGATG 368
QY 361 CTGCGGATTCGCTCTTCTGTCGCGACGCTATTCACCTTTACCCCGCTTGATCAT 420
DB 369 CTGCGGATTCGCTCTTCTGTCGCGACGCTATTCACCTTTACCCCGCTTGATCAT 428
QY 421 ACAACAGAGTGCACATGCTCATC 447
DB 429 ACAGTACAGACATGCACTGCTCATC 455
RESULT 12
US-09-201-912-28
Sequence 28, Application US/09201912
Patent No. 6210962
GENERAL INFORMATION:
APPLICANT: Brechot, Christian
APPLICANT: Kremendorf, Dina
APPLICANT: Porchon, Colette
TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
TITLE OF INVENTION: Applications
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/201,912
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,285
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05286-0001-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other
DESCRIPTION: cDNA to genomic RNA
US-09-201-912-28
Query Match 69.5%; Score 310.6; DB 3; Length 501;
Best Local Similarity 80.8%; Pred. No. 4.8e-97;
Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAATGACATGACAGAGGAATTGCTGCTCTCTTCTATCTTCTCTTA 60
DB 9 GACGGCGTGAATGACATGACAGAGGAATTGCTGCTCTCTTCTATCTTCTCTTG 68
QY 61 GCTTTCTGCTGCTGTTGACGGTTTCACTACCGCTCATGAGTGGCGAAGCATCCGGG 120
DB 69 GCTGCTGCTGCTGTTTGAACATCCACCTTCGGCTTGAAGTGGCGAAGCATCCGGG 128

[illegible]

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1      RESULT 13
2      US-08-612-973-5
3      Sequence 5, Application US/08612973
4      Patent No. 6150134
5      GENERAL INFORMATION:
6      APPLICANT: MAERTENS, GEBERT
7      APPLICANT: BOSMAN, FONS
8      APPLICANT: DE MARTYNOFF, GUY
9      APPLICANT: BUUSE, MARIE-ANGE
10     TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
11     TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
12     NUMBER OF SEQUENCES: 111
13     CORRESPONDENCE ADDRESS:
14     ADDRESSEE: NIXON & VANDERHUYE P. C.
15     STREET: 1100 NORTH GLEBE ROAD
16     CITY: ARLINGTON
17     STATE: VIRGINIA
18     COUNTRY: U.S.A.
19     ZIP: 22201-4714
20     COMPUTER READABLE FORM:
21     MEDIUM TYPE: Floppy disk
22     COMPUTER: IBM PC compatible
23     OPERATING SYSTEM: PC-DOS/MS-DOS
24     SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
25     CURRENT APPLICATION DATA:
26     APPLICATION NUMBER: US/08/612,973
27     FILING DATE: 11-Mar-1996
28     CLASSIFICATION: 435
29     ATTORNEY/AGENT INFORMATION:
30     NAME: BYRNE, THOMAS E.
31     REGISTRATION NUMBER: 32,205
32     REFERENCE/DOCKET NUMBER: 1487-10
33     TELECOMMUNICATION INFORMATION:
34     TELEPHONE: (703) 816-4000
35     TELEFAX: (703) 816-4100
36     INFORMATION FOR SEQ ID NO: 5:
37     SEQUENCE CHARACTERISTICS:
38     LENGTH: 795 base pairs
39     TYPE: nucleic acid
40     STRANDEDNESS: single
41     TOPOLOGY: linear
42     MOLECULE TYPE: cDNA
43     HYPOTHETICAL: NO
44     ANTI-SENSE: NO
45     FEATURE:
46     NAME/KEY: CDS
47     LOCATION: 1..792

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;      FEATURE:          mat_peptide
;      NAME/KEY:         ;
;      LOCATION:         1..789
US-08-612-973-5

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Query Match	69.5%;	Score 310.6;	DB 3;	Length 795;
Best Local Similarity	80.8%;	Pred. No. 6.2e-97;		
Matches 361;	Conservative 1;	Mismatches 85;	Indels 0;	Gaps 0;

QY	61	GCCTTTCCTCTCTGCTTGA	CGGTTCCAC	CTACCGGCTCA	TGAGGTGGCCAA	AGCATCCGGG	1200
Db	127	GACGGGCTGAACTATGCA	CAAGGGAATTGGCCCGGTTG	CTCTTCTCATCTTCTCTTG			186
QY	187	GCTTTCCTCTCTCTGCTTGA	CGGTTCCAC	CTACCGGCTCA	TGAGGTGGCCAA	AGCATCCGGG	246
QY	121	GTAATCATCTACCA	CAATGACTGTGTCCAA	CTCGAGCATCAT	CTATGAGATGAGTGTATG		180
Db	247	ATTTACCAATGTAC	GAAAGCACTGTCTTCCA	CTCAGATTTGTAT	TGAGGACGGGACATG		306
QY	181	ATCTTGACAGCCCCA	AGGGTGTGTGCTTGCCGTGCGGATG	GGGAGAAC	CTCTTCTCTGTGTG		240
Db	307	ATCATCA	CACCCCCGGGGTGCGTGGCTTCG	GTGGAGAAC	CAACTCTTCCCGCTGTGG		366
QY	241	ATGCCCTAC	CCCCCAAGCTTGGGTCA	AAAGCTATATGCTTCA	TGCGGCAATCCCA		300
Db	367	GTAGCGCTAC	CCCCCAAGCTTGGGTCA	AAAGCTATATGCTTCA	TGCGGCAATCCCA		426
QY	301	CGGCATGTCA	CTTCTGTGGTGGGAC	AGCCGATTTGTTCCGCTAT	GTATGTGGGGAC		360
Db	427	CGCAGCTG	ATTTCTGTGTGGGGCGGCTTTCTG	TTCCGCTATGTATGTGGGGAC			486
QY	361	CTCTGCGGAT	CCGCTCTTCTGTGTGGGCA	GGTATTAACCTTTTCA	CCCCGCTGTACAT		420
Db	487	CTCTGCGGAT	CCGCTCTTCTGTGTGGGCA	GGTATTAACCTTTTCA	CCCCGCTGTACAT		546
QY	421	ACAACA	CAGAGTGA	CACTGCTCAATC			447
Db	547	ACGGTGCA	GAATGTCA	ATTGCTCAATC			573

RESULT 14
 US-08-927-597-5
 : Sequence 5, Application US/08927597
 : Patent No. 624503
 :
 : GENERAL INFORMATION:
 : APPLICANT: MAERTENS, GEERT
 : APPLICANT: BOSMAN, FONS
 : APPLICANT: DE MARTNOEF, GUY
 : APPLICANT: BUYSSE, MARIE-ANGE
 : TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 : TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 : NUMBER OF SEQUENCES: 111
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: NIXON & VANDERHYE P. C.
 : STREET: 1100 NORTH GLEBE ROAD
 : CITY: ARLINGTON
 : STATE: VIRGINIA
 : COUNTRY: U.S.A.
 : ZIP: 22201-4714
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/927,597
 : FILING DATE:
 : CLASSIFICATION:
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/612,973
 : FILING DATE: 11-MAR-1996

ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 795 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..792
 FEATURE:
 NAME/KEY: mat peptide
 LOCATION: 1..789
 US-08-927-597-5

Query Match 69.5%; Score 310.6; DB 3; Length 795;
 Best Local Similarity 80.8%; Pred. No. 6.2e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATATGCAACAGGGAATTTGCTGTTCTCTTCTATCTTCTCTTA 60
 DB 127 GACGGCGTGAACATATGCAACAGGGAATTTGCTGTTCTCTTCTATCTTCTCTTA 186
 QY 61 GCTTTTCTGCTGCTGTTGCACTACCGCTCATAGAGTGGCGCAACGCAATCCGGG 120
 DB 187 GCTTTGCTGCTGCTGTTGCACTACCGCTCATAGAGTGGCGCAACGCTGCTCGG 246
 QY 121 GTATATCATCTCAACATGACTGTTCAACTCGACATCATATGATGATGATGATG 180
 DB 247 ATGTACATGTGCAACAGAGCTGCTCAACTCAATGATGATGATGATGATGATG 306
 QY 181 ATCTTGACAGCGCCGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 307 ATCATGACACCCCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
 QY 241 ATGCGCTCACCCCGAGCTTGGCGTCAAGAGCTAATGTCCTCACTGCGCAATCCGA 300
 DB 367 GTAGCGTCAACCCCGAGCTTGGCGTCAAGAGCTAATGTCCTCACTGCGCAATCCGA 426
 QY 301 CGCCATGTGCACTTGTGTTGGGACAGCCGCTTTCGTTCCGCTATGATGATGATG 360
 DB 427 CGCCATGTGCACTTGTGTTGGGACAGCCGCTTTCGTTCCGCTATGATGATGATG 486
 QY 361 CTCTGCGGATCGTCTTCTGTTGGGCAAGCTATTCACCTTTTACCCCGCTGTAAT 420
 DB 487 CTCTGCGGATCGTCTTCTGTTGGGCAAGCTATTCACCTTTTACCCCGCTGTAAT 546
 QY 421 ACAACAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 447
 DB 547 ACGGTGACAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 573

RESULT 15
 US-08-928-757-5
 Sequence 5, Application US/08928757
 Patent No. 6890737
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GERT
 BOSMAN, FONS
 DE MARTINOPE, GUY
 BUYSE, MARIE-ANGE
 TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
 PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
 NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:
 ADDRESSEE: NIXON & VANDERHAYE P.C.
 STREET: 1100 NORTH GLOBE ROAD
 CITY: ARLINGTON
 STATE: VIRGINIA
 COUNTRY: U.S.A.
 ZIP: 22201-4714
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/928,757
 FILING DATE: 12-Sep-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/612,973
 FILING DATE: 11-MAR-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: BYRNE, THOMAS E.
 REGISTRATION NUMBER: 32,205
 REFERENCE/DOCKET NUMBER: 1487-10
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-4000
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 795 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..792
 FEATURE:
 NAME/KEY: mat peptide
 LOCATION: 1..789
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 US-08-928-757-5
 Query Match 69.5%; Score 310.6; DB 3; Length 795;
 Best Local Similarity 80.8%; Pred. No. 6.2e-97;
 Matches 361; Conservative 1; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGCGTGAACATATGCAACAGGGAATTTGCTGTTCTCTTCTATCTTCTCTTA 60
 DB 127 GACGGCGTGAACATATGCAACAGGGAATTTGCTGTTCTCTTCTATCTTCTCTTA 186
 QY 61 GCTTTTCTGCTGCTGTTGCACTACCGCTCATAGAGTGGCGCAACGCAATCCGGG 120
 DB 187 GCTTTGCTGCTGCTGTTGCACTACCGCTCATAGAGTGGCGCAACGCTGCTCGG 246
 QY 121 GTATATCATCTCAACATGACTGTTCAACTCGACATCATATGATGATGATGATG 180
 DB 247 ATGTACATGTGCAACAGAGCTGCTCAACTCAATGATGATGATGATGATGATG 306
 QY 181 ATCTTGACAGCGCCGAGGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 307 ATCATGACACCCCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 366
 QY 241 ATGCGCTCACCCCGAGCTTGGCGTCAAGAGCTAATGTCCTCACTGCGCAATCCGA 300
 DB 367 GTAGCGTCAACCCCGAGCTTGGCGTCAAGAGCTAATGTCCTCACTGCGCAATCCGA 426
 QY 301 CGCCATGTGCACTTGTGTTGGGACAGCCGCTTTCGTTCCGCTATGATGATGATG 360
 DB 427 CGCCATGTGCACTTGTGTTGGGACAGCCGCTTTCGTTCCGCTATGATGATGATG 486
 QY 421 ACAACAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 447
 DB 547 ACGGTGACAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 573

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 55,4201 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-9
Perfect score: 223
Sequence: 1 atgagcagcaatccctaacc.....gcgcgcagccagggcaggt 223

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/prodata/1/ina/5/COMB.seq:*
- 3: /cgn2_6/prodata/1/ina/6A/COMB.seq:*
- 4: /cgn2_6/prodata/1/ina/6B/COMB.seq:*
- 5: /cgn2_6/prodata/1/ina/H/COMB.seq:*
- 6: /cgn2_6/prodata/1/ina/PCTUS/COMB.seq:*
- 7: /cgn2_6/prodata/1/ina/PP/COMB.seq:*
- 8: /cgn2_6/prodata/1/ina/RE/COMB.seq:*
- 9: /cgn2_6/prodata/1/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	223	100.0	223	3	US-08-836-075A-9
2	223	100.0	652	3	US-08-836-075A-59
3	194.2	87.1	573	2	US-08-290-665A-147
4	194.2	87.1	573	6	PCT-US95-10398-147
5	192.6	86.4	573	2	US-08-290-665A-146
6	192.6	86.4	573	2	US-08-290-665A-148
7	192.6	86.4	573	6	PCT-US95-10398-146
8	192.6	86.4	573	6	PCT-US95-10398-148
9	192.6	86.4	831	3	US-08-836-075A-65
10	191.6	85.9	462	3	US-08-854-531-1
11	191.6	85.9	462	6	PCT-US95-13552-1
12	191.6	85.9	573	2	US-08-290-665A-121
13	191.6	85.9	573	6	PCT-US95-10398-121
14	191.6	85.9	780	3	US-08-474-700B-45
15	191.6	85.9	2433	3	US-08-612-973-49
16	191.6	85.9	2433	3	US-08-927-597-49
17	191.6	85.9	2433	3	US-08-928-757-49
18	191.6	85.7	573	2	US-08-290-665A-149
19	191.6	85.7	573	2	US-08-290-665A-153
20	191.6	85.7	573	6	PCT-US95-10398-149
21	191.6	85.7	573	6	PCT-US95-10398-153
22	190	85.2	345	2	US-08-324-977-7
23	190	85.2	345	2	US-08-384-616-7
24	190	85.2	345	2	US-08-904-686A-7

25	190	85.2	345	3	US-09-315-850-7	Sequence 7, Appl
26	190	85.2	549	3	US-08-441-971-62	Sequence 62, Appl
27	190	85.2	549	3	US-08-441-971-63	Sequence 63, Appl
28	190	85.2	549	3	US-08-221-653-62	Sequence 62, Appl
29	190	85.2	549	3	US-08-221-653-63	Sequence 63, Appl
30	190	85.2	549	3	US-08-442-144A-62	Sequence 62, Appl
31	190	85.2	549	3	US-08-442-144A-63	Sequence 63, Appl
32	190	85.2	549	3	US-08-441-970-62	Sequence 62, Appl
33	190	85.2	549	3	US-08-441-970-63	Sequence 63, Appl
34	190	85.2	573	2	US-08-290-665A-109	Sequence 109, App
35	190	85.2	573	2	US-08-290-665A-112	Sequence 112, App
36	190	85.2	573	2	US-08-290-665A-113	Sequence 113, App
37	190	85.2	573	2	US-08-290-665A-114	Sequence 114, App
38	190	85.2	573	2	US-08-290-665A-117	Sequence 117, App
39	190	85.2	573	2	US-08-290-665A-118	Sequence 118, App
40	190	85.2	573	2	US-08-290-665A-120	Sequence 120, App
41	190	85.2	573	6	PCT-US95-10398-109	Sequence 109, App
42	190	85.2	573	6	PCT-US95-10398-112	Sequence 112, App
43	190	85.2	573	6	PCT-US95-10398-113	Sequence 113, App
44	190	85.2	573	6	PCT-US95-10398-114	Sequence 114, App
45	190	85.2	573	6	PCT-US95-10398-117	Sequence 117, App

ALIGNMENTS

RESULT 1
US-08-836-075A-9
; Sequence 9, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESS: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-9

Query Match 100.0%; Score 223; DB 3; Length 223;
Best Local Similarity 100.0%; Pred. No. 1.4e-60;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 60
|
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 60
|
QY 61 GACGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTACGTCCTACCGCGCAG 120
|
DB 61 GACGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTACGTCCTACCGCGCAG 120
|
QY 121 GGCCTAGATTGGGTGTGCGCGCAGAGCGCGGAACATTCGAGCGGTCCGCACTCGTGG 180
|
DB 121 GGCCTAGATTGGGTGTGCGCGCAGAGCGCGGAACATTCGAGCGGTCCGCACTCGTGG 180
|
QY 181 AGCGCCCAACTATCTCCCAAGAGCGCGCACCCGAGGCGCAGT 223
|
DB 181 AGCGCCCAACTATCTCCCAAGAGCGCGCACCCGAGGCGCAGT 223

RESULT 2

US-08-836-075A-59
Sequence 59, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

TITLE OF INVENTION: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKER

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 59:

SEQUENCE CHARACTERISTICS:

LENGTH: 652 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-59

Query Match 100.0%; Score 223; DB 3; Length 652;
Best Local Similarity 100.0%; Pred. No. 2e-60;
Matches 223; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 239 ATGACACCAATCTTAAACCTCAAGAAAAACCAAGAAACACCAACCGCGCCACAG 298
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QY 61 GACGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTACGTCCTACCGCGCAG 120
|
DB 299 GACGTCAAGTTCGCGGCGGTGCGCAGATCGTTGTGAGTCTACGTCCTACCGCGCAG 358
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QY 121 GGCCTAGATTGGGTGTGCGCGCAGAGCGCGGAAGACTTCGAGCGGTCCGCACTCGTGG 180
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DB 359 GGCCTAGATTGGGTGTGCGCGCAGAGCGCGGAAGACTTCGAGCGGTCCGCACTCGTGG 418
|
QY 181 AGCGCCCAACTATCTCCCAAGAGCGCGCACCCGAGGCGCAGT 223
|
DB 419 AGCGCCCAACTATCTCCCAAGAGCGCGCACCCGAGGCGCAGT 461

RESULT 3

US-08-290-665A-147
Sequence 147, Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BURKH, J., MILLER, R.H. AND

TITLE OF INVENTION: PORCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORGAN & PINNEGAN

STREET: 345 PARK AVENUE

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK

COMPUTER: IBM PC COMPATIBLE

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800

TELEFAX: (212) 751-6649

INFORMATION FOR SEQ ID NO: 147:

SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

ORIGINAL SOURCE:

ORGANISM: homospapiens

INDIVIDUAL ISOLATE: SAs5

US-08-290-665A-147

Query Match 87.1%; Score 194.2; DB 2; Length 573;
Best Local Similarity 91.9%; Pred. No. 2.2e-51;
Matches 205; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCCGCCACAG 60
QY 61 GACGTCAAGTTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCTACCGCGCAG 120
DB 61 GACGTCAAGTTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCTACCGCGCAG 120
QY 121 GGCCTAAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
DB 121 GGCCTAAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
QY 181 AGCGCCCAACTATTCCCAAGAGCGCGCACCGCGGCGAGT 223
DB 181 CGCGCCAGCTATTCTCCCAAGGCGCGCCACCCAGCGGCGGT 223

RESULT 4
PCT-US95-10398-147

; Sequence 147, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & PINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/280/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SAS
; PCT-US95-10398-147
Query Match 87.1%; Score 194.2; DB 6; Length 573;
Best Local Similarity 91.9%; Pred. No. 2.2e-51;

Matches 205; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCCGCCACAG 60
QY 61 GACGTCAAGTTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCTACCGCGCAG 120
DB 61 GACGTCAAGTTCCCGGGCGGTGGCCAGATCGTTGTGAGTCTACGTCTACCGCGCAG 120
QY 121 GGCCTAAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
DB 121 GGCCTAAGATTGGGTGTGCGCGCAGCGCGGAAGACTTCGAGCGGTCCGACCTGTGG 180
QY 181 AGCGCCCAACTATTCCCAAGAGCGCGCACCGCGGCGAGT 223
DB 181 CGCGCCAGCTATTCTCCCAAGGCGCGCCACCCAGCGGCGGT 223

RESULT 5

US-08-290-665A-146

; Sequence 146, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & PINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 146:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: SA4
; US-08-290-665A-146

Query Match 86.4%; Score 192.6; DB 2; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGAAACCAACCGCCGCCACAG 60

Db 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGAACCAACCGCCGACAG 60
QY 61 GACGTCGAATTCCTCCGGGCGGTGTCAGATCGTTGGTGAAGTCTACGTCACCGGCAG 120
Db 61 GACGTTAAATTCCTCCGGGCGGTGTCAGATCGTTGGTGAAGTCTACGTCACCGGCAG 120
QY 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGAATCTGTCG 180
Db 121 GACCCCTAGATTGGGTGTGCGCGCAGCTCGAAGACTTCGAGACGTCGCAACCCGTCG 180
QY 181 AGCGCCCAACTATTCCTCAAGAGCGCCGACCCGAGGCGCAGGT 223
Db 181 CGCGCCGACGCTATTCCTCAAGAGCGCCGACCAACCGAGCGCGGT 223

RESULT 6
US-08-290-665A-148
Sequence 148, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R. H. AND
APPLICANT: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 148:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: SA7
US-08-290-665A-148

Query Match 86.4%; Score 192.6; DB 2; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCCGACAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCCGACAG 60
QY 61 GACGTCGAATTCCTCCGGGCGGTGTCAGATCGTTGGTGAAGTCTACGTCACCGGCAG 120

Db 61 GACGTCGAATTCCTCCGGGCGGTGTCAGATCGTTGGTGAAGTCTACGTCACCGGCAG 120
QY 121 GACCCCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCGAGCGGTGCGCAACTGTCG 180
Db 121 GACCCCTAGATTGGGTGTGCGCGCAGCTCGAAGACTTCGAGACGTCGCAACCCGTCG 180
QY 181 AGCGCCCAACTATTCCTCAAGAGCGCCGACCCGAGGCGCAGGT 223
Db 181 CGCGCCGACGCTATTCCTCAAGAGCGCCGACCAACCGAGCGCGGT 223

RESULT 7
PCT-US95-10398-146
Sequence 146, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BURKH, J., MILLER, R. H. AND
APPLICANT: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 146:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: SA4
PCT-US95-10398-146

Query Match 86.4%; Score 192.6; DB 6; Length 573;
Best Local Similarity 91.5%; Pred. No. 7.1e-51;
Matches 204; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCCGACAG 60
Db 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAAGAACCAACCGCCGACAG 60
QY 61 GACGTCGAATTCCTCCGGGCGGTGTCAGATCGTTGGTGAAGTCTACGTCACCGGCAG 120

Db 61 GACGTTAAGTCCCGGGGGGTGGTCAGATCGTTGGTGGAGTCACTTGTGGCCGCCAAG 120

Oy 121 GGCCCTAAGTTGGGTGTGCGCGCAGCGGAGACCTTCGAGCGGTGCACTCGTGG 180

Db 121 GGCCCTAAGTTGGGTGTGCGCGCATTCGAGACCTTCAGAAAGGTGCAACCCCGTGG 180

Oy 181 AGGCGCAACTATTCCCAAGAGAGCGCGACCCGAGGGAGGT 223

Db 181 CGGCGCGACCTATTCCCAAGAGCGCGCAACCCAGGGCGGT 223

RESULT 8

```

1 Sequence 148, Application PC/TUS9510398
2 GENERAL INFORMATION:
3 APPLICANT: BUKH, J., MILLER, R.H. AND
4 APPLICANT: PURCELL, R.H.
5 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
6 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
7 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
8 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
9 NUMBER OF SEQUENCES: 263
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: MORGAN & FINNEGAN
12 STREET: 345 PARK AVENUE
13 CITY: NEW YORK
14 STATE: NEW YORK
15 COUNTRY: USA
16 ZIP: 10154
17
18 COMPUTER READABLE FORM:
19 MEDIUM TYPE: FLOPPY DISK
20 COMPUTER: IBM PC COMPATIBLE
21 OPERATING SYSTEM: PC-DOS/MS-DOS
22 SOFTWARE: WORDPERFECT 5.1
23
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: PCT/US95/10398
26 FILING DATE: 15-AUG-1995
27 CLASSIFICATION:
28 PRIOR APPLICATION DATA:
29 APPLICATION NUMBER: 08/086,428
30 FILING DATE: 29 JUNE 1993
31
32 PRIOR APPLICATION DATA:
33 APPLICATION NUMBER: 08/290/665
34 FILING DATE: 15 AUGUST 1994
35 ATTORNEY/AGENT INFORMATION:
36 NAME: RICHARD W. BORK
37 REGISTRATION NUMBER: 36,459
38 REFERENCE/DOCKET NUMBER: 2026-4116
39 TELECOMMUNICATION INFORMATION:
40 TELEPHONE: (212) 758-4800
41 TELEFAX: (212) 751-6849
42
43 TELEX: 421792
44
45 INFORMATION FOR SEQ ID NO: 148:
46 SEQUENCE CHARACTERISTICS:
47 LENGTH: 573 base pairs
48 TYPE: nucleic acid
49 STRANDEDNESS: single
50 TOPOLOGY: linear
51
52 ORIGINAL SOURCE:
53 ORGANISM: hominids
54 INDIVIDUAL ISOLATE: SAT
55
56 CBT-US95-10398-148

```

Query Match	86.4%	Score 192.6	DB 6	Length 573
Best Local Similarity	91.5%	Pred. No. 7.1e-51		
Matches	204	Conservative	0	Mismatches 19
			Indels	0
			Gaps	0
Oy	1	ATGAGCAGGAATCTCTTAAACCTCAAGAAAAAACCAGAAACCAACCGCGCGCCACAG	60	
Db	1	ATGAGCAGGAATCTCTTAAACCTCAAGAAAAAACCAGAAACCAACCGCGCGCCACAG	60	

QY	61	GAAGTCAATTC	CCGGGCGG	GTGCAG	TGCTTTGTGGT	CTCAGTGC	CTACCGCGAGG	120
Db	61	GAAGTCAATTC <th>CCGGGCGG</th> <th>GTGCAG</th> <th>TGCTTTGTGGT</th> <th>CTCAGTGC</th> <th>CTACCGCGAGG</th> <th>120</th>	CCGGGCGG	GTGCAG	TGCTTTGTGGT	CTCAGTGC	CTACCGCGAGG	120
QY	121	GGCCCTAGATT	GGGTGTG	CGCGCAG	CGCGGAAGA	CTTCGAG	CGGTCGCAACT	CGTGGG 180
Db	121	GGCCCTAGATT	GGGTGTG	CGCGCAG	CGCGGAAGA	CTTCGAG	CGGTCGCAACT	CGTGGG 180
QY	121	GGCCCTAGATT	GGGTGTG	CGCGCAG	CGCGGAAGA	CTTCGAG	CGGTCGCAACT	CGTGGG 180
Db	121	GGCCCTAGATT	GGGTGTG	CGCGCAG	CGCGGAAGA	CTTCGAG	CGGTCGCAACT	CGTGGG 180
QY	181	AGGCGCAACT	ATTCCCA	GAGAGCG	CGACCCCA	GGGCGAG	GT 223	
Db	181	AGGCGCAACT	ATTCCCA	GAGAGCG	CGACCCCA	GGGCGAG	GT 223	

RESULT 9

```

Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
IS-08-836-075A-65

```

Query Match	86.4%	Score 192.6	DB 3	Length 831
Best Local Similarity	91.5%	Pred. No. 8.1e-51		
Matches 204	Conservative	0	Mismatches 19	Indels 0
Matches			Gaps	0
QY	1	ATGAGCAGCAATCTCTAAACCTCAAAAGAAAAACCAAAAGAAAACA	CCACGCGGCCACAG	60
Db	16	ATGAGCAGCAATCTCTAAACCTCAAAAGAAAAACCAAAAGTAACTCAAC	CGGCCGCCACAG	75
QY	61	GACGTCAGATTCGGCGGCGGTGCGCAATGCTTGTGTGAATCTAAGTCTCA	CGGCCGACG	120

Db 76 GAGCTCAAGTTCCTCCGGGCGGTGGCGAGATCGTCGTGAGATTACTGTTGCCGCGCAGG 135
QY 121 GGCCCTAGATTGGGTGTGGCGGAGCGCGGAAGACTTTCGAGCGGTCCGAACCTCGTGGG 180
Db 136 GGCCCTAGATTGGGTGTGGCGGAGACTAGAAAGACTTCCGAGCGGTCCGAACCTCGTGGG 195
QY 181 AGCGCCCAACCTATTCCCAAGAGCGCGCAGCCGCGAGGCGAGGT 223
Db 196 AGCGCAAGCTTATCCCAAGGCTCCCGCATCCGAGGCGCAGGT 238

RESULT 10
US-08-854-531-1
; Sequence 1, Application US/08854531
; Patent No. 6025341
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Tokushige, Katsutoshi
; APPLICANT: Makita, Takaji
; TITLE OF INVENTION: CHIMERIC HEPATITIS B/HEPATITIS C VIRUS VACCINE
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 6025341iris
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/854,531
; FILING DATE: Herewith
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: APOL-0214
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 462 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-854-531-1

Query Match 85.9%; Score 191.6; DB 3; Length 462;
Best Local Similarity 91.4%; Pred. No. 1.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGCGGTGGCGAGATCGTTGTTGAGTCTACGTTACCGCGCAG 120
Db 61 GAGCTCAAGTTCCTCCGGGCGGTGGCGAGATCGTTGTTGAGTCTACGTTACCGCGCAG 120
QY 121 GGCCCTAGATTGGGTGTGGCGGAGCGCGGAAGACTTTCGAGCGGTCCGAACCTCGTGGG 180
Db 121 GGCCCTAGATTGGGTGTGGCGGAGCTTAGAAGAACTTCCGAGCGGTCCGAACCTCGTGGG 180
QY 181 AGCGCCCAACCTATTCCCAAGAGCGCGCAGCCGCGAGGCGAGG 222
Db 181 AGCGCAAGCTTATCCCAAGGATCGCGCGCCGAGGCGCAGG 222

RESULT 11
PCT-US95-13552-1
; Sequence 1, Application PC/TUS9513552
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Tokushige, Katsutoshi
; APPLICANT: Makita, Takaji
; APPLICANT: Pachuk, Catherine J.
; APPLICANT: Zurawski, Jr., Vincent R.
; APPLICANT: Coney, Leslie R.
; TITLE OF INVENTION: HEPATITIS VIRUS VACCINES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz &
; STREET: Norris
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/13552
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/318,248
; FILING DATE: 05-OCT-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/467,859
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: APOL-0238
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 462 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; PCT-US95-13552-1

Query Match 85.9%; Score 191.6; DB 6; Length 462;
Best Local Similarity 91.4%; Pred. No. 1.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAGAAACCAAGAAACCAACCGCGCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGCGGTGGCGAGATCGTTGTTGAGTCTACGTTACCGCGCAG 120
Db 61 GAGCTCAAGTTCCTCCGGGCGGTGGTGCAGATCGTTGTTGAGTCTACGTTACCGCGCAG 120
QY 121 GGCCCTAGATTGGGTGTGGCGGAGCGCGGAAGACTTTCGAGCGGTCCGAACCTCGTGGG 180
Db 121 GGCCCTAGATTGGGTGTGGCGGAGCTTAGAAGAACTTCCGAGCGGTCCGAACCTCGTGGG 180
QY 181 AGCGCCCAACCTATTCCCAAGAGAGCGCGCAGCCGAGGCGCAGG 222
Db 181 AGCGCAAGCTTATCCCAAGGATCGCGCGCCGAGGCGCAGG 222

```

US-08-290-665A-121
; Sequence 121, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 121:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK5
US-08-290-665A-121

Query Match      85.9%; Score 191.6; DB 2; Length 573;
Best Local Similarity 91.4%; Pred. No. 1.5e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0

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Db      1  ATGAGCAAGAACTCTTAAACCTCAAGAAAAACCAAAACGTAACCAACCGCGCCACAG 60
OY      61  GACGTCAGATTCCCGGCGGCGTGCCGAGATCGTTGGTGAAGTCTACGTGCTACCGGCGAG 120
Db      61  GACGTCAGATTCCCGGCGGCGTGCGTGAATCGTTGGTGAAGTTACTGTGTGCGGCGAG 120
OY      121  GGCCTTAGATTGGGTGTGCGCGCGACGCGCGGAGAACTTCGAGACGGGTGCGACCTTGCTG 180
Db      121  GGGCCCAAGTTGGGTGTGCGCGCGACGCGGAAAGACTTCGAGACGGGTGCGACCTTGCTGA 180
OY      181  AGGCGCAACCTATTCCCAAGGAGGCGCGACCCCGAGGGGCGAG 222
Db      181  AGGCGCAACCTATTCCCAAGGCTCGCGGACCCGAGGGGCGAG 222

RESULT 13
PCT-US95-10398-121
; Sequence 121, Application PC/TUS9510398
; GENERAL INFORMATION:

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1  APPLICANT: BURK, J., MILLER, R.H. AND
2  APPLICANT: PURCELL, R.H.
3  TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
4  TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
5  TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
6  TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
7  TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
8  NUMBER OF SEQUENCES: 263
9  CORRESPONDENCE ADDRESS:
10 ADDRESS: MORGAN & PINNEGAN
11 STREET: 345 PARK AVENUE
12 CITY: NEW YORK
13 STATE: NEW YORK
14 COUNTRY: USA
15 ZIP: 10154
16
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE: FLOPPY DISK
19 COMPUTER: IBM PC COMPATIBLE
20 OPERATING SYSTEM: PC-DOS/MS-DOS
21 SOFTWARE: WORDPERFECT 5.1
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23 CURRENT APPLICATION DATA:
24 APPLICATION NUMBER: PCT/US95/10398
25 FILING DATE: 15-AUG-1995
26 CLASSIFICATION:
27 PRIOR APPLICATION DATA:
28 APPLICATION NUMBER: 08/086,428
29 FILING DATE: 29 JUNE 1993
30 PRIOR APPLICATION DATA:
31 APPLICATION NUMBER: 08/290/665
32 FILING DATE: 15 AUGUST 1994
33 ATTORNEY/AGENT INFORMATION:
34 NAME: RICHARD W. BORK
35 REGISTRATION NUMBER: 36,459
36 REFERENCE/DOCKET NUMBER: 2026-4116
37 TELECOMMUNICATION INFORMATION:
38 TELEPHONE: (212) 758-4800
39 TELEFAX: (212) 751-6849
40
41 TELEX: 421792
42 INFORMATION FOR SEQ ID NO: 121:
43 SEQUENCE CHARACTERISTICS:
44 LENGTH: 573 base pairs
45 TYPE: nucleic acid
46 STRANDEDNESS: single
47 TOPOLOGY: linear
48
49 ORIGINAL SOURCE:
50 ORGANISM: homosapiens
51 INDIVIDUAL ISOLATE: HKS
52
53 PCT-US95-10398-121
54
55 Query Match 85.9%; Score 191.6; DB 6; Length 573;
56 Best Local Similarity 91.4%; Pred. No. 1.5e-50;
57 Matches 203; Conservative % 0; Mismatches 19; Indels 0; Gaps 0;
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60 Db 1 ATGAGCAGCATCTCTAATCACTCAAGAAAAACCAAAAGAAACGTAACACCAACCGCGCCACAG 60
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66 Db 121 GGCCCGAGTTGGGTGTGCGCGCAGCGAGGAAGACTTCGAGCGGATGCGCACTCTGTGA 180
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68 QY 181 AGGCGCAACTATTTCCCAAGAGCGCGGACCCGAGGGCAG 222
69 Db 181 AGGCGCAACTATTTCCCAAGGCTCGCGACCCGAGGGCAG 222
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71 RESULT 14
72 US-08-474-700B-45
73 Sequence 45, Application US/08474700B

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; Patent No. 6001990
; GENERAL INFORMATION:
; APPLICANT: Wands, Jack
; APPLICANT: Wakita, Takaji
; APPLICANT: Moradpour, Darius
; TITLE OF INVENTION: ANTISENSE INHIBITION OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,700B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-474-700B-45
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Query Match      85.9%; Score 191.6; DB 3; Length 780;
Best Local Similarity 91.4%; Pred. No. 1.6e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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US-08-612-973-49
; Sequence 49, Application US/08612973
; Patent No. 6150134
; GENERAL INFORMATION:
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; APPLICANT: MAERTENS, GEBERT
; APPLICANT: BOSMAN, FONS
; APPLICANT: DE MARTYNOFF, GUY
; APPLICANT: BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
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; TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/612,973
; FILING DATE: 11-MAR-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4100
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..2427
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US-08-612-973-49
;
Query Match      85.9%; Score 191.6; DB 3; Length 2433;
Best Local Similarity 91.4%; Pred. No. 2.4e-50;
Matches 203; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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Job time : 56.4201 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 237.834 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-11

Perfect score: 957

Sequence: 1 atgagcagcagcaccctcaaac.....taagcgccacccgmmmmnn 957

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	674	70.4	1167	2	US-08-324-977-9
3	674	70.4	1167	2	US-08-384-616-9
4	674	70.4	1167	2	US-08-904-686A-9
5	674	70.4	1167	2	US-09-315-850-9
6	674	70.4	1499	2	US-08-324-977-3
7	674	70.4	1499	2	US-08-384-616-3
8	674	70.4	1499	2	US-08-904-686A-3
9	674	70.4	1499	2	US-09-315-850-3
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11	674	70.4	6039	2	US-08-384-616-11
12	674	70.4	6039	2	US-08-904-686A-11
13	674	70.4	6039	2	US-09-315-850-11
14	674	70.4	9030	2	US-08-324-977-13
15	674	70.4	9030	2	US-08-384-616-13
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19	674	70.4	9416	2	US-08-384-616-1
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22	674	70.4	9416	3	US-08-823-895A-27
23	672.4	70.3	2433	3	US-08-612-973-49
24	672.4	70.3	2433	3	US-08-927-597-49

25	672.4	70.3	2433	3	US-08-928-757-49	Sequence 49, Appl
26	666	69.6	1539	2	US-08-470-426B-17	Sequence 17, Appl
27	666	69.6	1863	2	US-08-470-426B-14	Sequence 14, Appl
28	662.8	69.3	11076	3	US-09-539-601-1	Sequence 1, Appl
29	662.8	69.3	11076	3	US-09-539-601-19	Sequence 19, Appl
30	662.8	69.3	11076	3	US-09-539-601-25	Sequence 25, Appl
31	662.8	69.3	11076	3	US-09-539-601-31	Sequence 31, Appl
32	661.2	69.1	9472	3	US-08-150-204E-96	Sequence 96, Appl
33	658	68.8	2116	3	US-08-191-160-21	Sequence 21, Appl
34	658	68.8	9413	3	US-09-827-668-6	Sequence 6, Appl
35	658	68.8	9595	3	US-09-014-416-4	Sequence 4, Appl
36	658	68.8	9599	3	US-09-014-416-6	Sequence 6, Appl
37	656.4	68.6	9275	3	US-10-259-275-39	Sequence 39, Appl
38	651.6	68.1	1037	2	US-08-462-195-1	Sequence 1, Appl
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40	651.6	68.1	1037	3	US-09-127-829-1	Sequence 1, Appl
41	640.4	66.9	1037	2	US-08-462-195-3	Sequence 19, Appl
42	640.4	66.9	1037	2	US-08-636-883-3	Sequence 3, Appl
43	640.4	66.9	1037	3	US-09-127-829-3	Sequence 3, Appl
44	637.2	66.6	9599	3	US-09-014-416-2	Sequence 2, Appl
45	637.2	66.6	9646	3	US-08-811-566-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-11
; Sequence 11, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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DB 1 ATGAGCAGCAATCTCTAAACCTCAAGAAAAACCAACGACACCAACCGCCGCCACAG 60
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DB 61 GACGTTAAATTCCTGGGAGGAGATGCGGTGAGTTACTTGTGCGCGCAG 120
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RESULT 3
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; Sequence 9, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto

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APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mcleland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-384-616-9
Query Match 70.4%; Score 674; DB 2; Length 1167;
Best Local Similarity 81.1%; Pred. No. 1.8e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
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      661 CTTCACAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
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      841 TGTGGGGGCGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
      841 TGTGGGGGCGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
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RESULT 5

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US-09-315-850-9
; Sequence 9, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000

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; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/315, 850
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904, 686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324, 977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099, 706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769, 996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635, 451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..1167
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; Query Match 70.4%; Score 674; DB 3; Length 1167;
; Best Local Similarity 81.1%; Pred. No. 1.8e-190;
; Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
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Qy      361 AAGGTGATGATACCTTAACTGTTGGCTTCCGATCTCATGAGGTAATTCCTCGTCC 420
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RESULT 6
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; Sequence 3, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:

APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington

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; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20006  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/324,977  
; FILING DATE: 18-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-167466  
; FILING DATE: 25-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-230921  
; FILING DATE: 31-AUG-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-305605  
; FILING DATE: 09-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,706  
; FILING DATE: 30-JUL-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/769,996  
; FILING DATE: 02-OCT-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/635,451  
; FILING DATE: 28-DEC-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Stevens-Smith, Theresa M.  
; REGISTRATION NUMBER: 36,281  
; REFERENCE/DOCKET NUMBER: 900703D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 659-2950  
; TELEFAX: (202) 887-0357  
; TELEX: 440142  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1499 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA from genomic RNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 333..1499  
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; NAME/KEY: misc feature  
; LOCATION: 1..1499  
; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ  
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US-08-324-977-3  
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Best Local Similarity 81.1%; Pred. No. 2,1e-190;  
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;  
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Db      181 AGGCGACAGCTATATCCCAAGGCTGCGGACCCGAGGGAGAGTCTTGAGCTCAGCTTGG 240  
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 781 CACGTGACCTCTGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 840
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RESULT 7
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 ; Sequence 3, Application US/08384616
 ; Patent No. 5847101
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/384,616
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/69,996
 FILING DATE: 02-OCT-1991
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens-Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
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 US-08-384-616-3
 Query Match 70.4%; Score 674; DB 2; Length 1499;
 Best Local Similarity 81.1%; Pred. No. 2.1e-190;
 Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

1 ATGAGCAGGATCTCTAAACCTCAAGAAACCAAGCCACACCAACCGGCCACAG 60
 333 ATGAGCAGGATCTCTAAACCTCAAGAAACCAAGCCACACCAACCGGCCACAG 392
 61 GACGTTAAATCCGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
 393 GACGTTAAATCCGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 452
 121 GCGCCAGGTTGGTGTGCGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
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RESULT 9

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US-09-315-850-3
; Sequence 3, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
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; APPLICATION NUMBER: US/09/315,850
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: McIeland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; FEATURE:
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; Best Local Similarity 81.1%; Pred. No. 2,1e-190;
; Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;
;
; Qy      1 ATGACAGCATCTTAACCTCAAGAAAAACCAACGCAACCAACGCGCCACAG 60
; Db      333 ATGACAGCATCTTAACCTCAAGAAAAACCAACGTAACCAACGCGCCACAG 392
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; Qy      61 GAGCTTAATTTCCGGGTGGGGGAGATGCTGTGGTGGAGTTTACTTGTTCGCGCAGG 120
; Db      393 GAGCTTAATTTCCGGGTGGGGGAGATGCTGTGGTGGAGTTTACTTGTTCGCGCAGG 452
;
; Qy      121 GAGCCCAAGTTGGAGTGGCGCGACGAGGAGGAGCTTCCGAGCGGTGCAACTGCGCAG 180
; Db      453 GAGCCCAAGTTGGAGTGGCGCGACGAGGAGGAGCTTCCGAGCGGTGCAACTGCGCAG 512
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; Qy      181 AGGCGACAGCTATCCCAAGGCTCGCCGACCGAGGGAGATCTTGAGGCTCAGCCTGAG 240
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;
; Qy      241 TACCCATGAGCCCTCTATGCTAACGAGGGCTGGGATGGGCTGGGATGGCTTCTGCTCCCT 300
; Db      573 TACCCATGAGCCCTCTATGCTAACGAGGGCTGGGATGGGCTGGGATGGCTTCTGCTCCCT 360
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; Qy      301 CGCGGCTCCGCTCTAGCTGGGCGCCCAATGATGAGCCCGAGTATGATGATGATGATGATGAT 360
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RESULT 10

US-08-324-977-11

; Sequence 11, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McJeland &
; ADDRESS: Naughton
; STREET: 1725 K St., N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
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; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6039 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; MOLECULE TYPE: cDNA from genomic RNA
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; NAME/KEY: misc.feature
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; OTHER INFORMATION: /note: "sequence = 333 - 6371 of
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; NAME/KEY: CDS
; LOCATION: 1..6039
; US-08-324-977-11

Query Match 70.4%; Score 674; DB 2; Length 6039;
Best Local Similarity 81.1%; Pred. No. 4.1e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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 ; Sequence 11, Application US/08384616
 ; Patent No. 5847101
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 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORT, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
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 ; CORRESPONDENCE ADDRESS:
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 ; SOFTWARE: ASCII
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 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
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 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605

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?      APPLICATION NUMBER: US 07/635,451
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?      FILING DATE: 28-DEC-1990
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?      ATTORNEY/AGENT INFORMATION:
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?      NAME: Stevens-Smith, Theresa M.
?
?      REGISTRATION NUMBER: 36,281
?
?      REFERENCE/DOCKET NUMBER: 900703B
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?      TELEFAX: (202) 887-0357
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?      TELEX: 440142
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?      INFORMATION FOR SEQ ID NO: 11:
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?      SEQUENCE CHARACTERISTICS:
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?      LENGTH: 6039 base pairs
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?      TYPE: nucleic acid
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?      STRANDEDNESS: single
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?      TOPOLOGY: linear
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?      MOLECULE TYPE: cDNA from genomic RNA
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?      FEATURE:
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?      NAME/KEY: misc feature
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?      LOCATION: 1..6039
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?      OTHER INFORMATION: /note: "sequence = 333 - 6371 of
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?      OTHER INFORMATION: SEQ ID NO: 1"
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?      FEATURE:
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?      LOCATION: 1..6039

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Query Match	70.4%;	Score 674;	DB 2;	Length 6039;
Best Local Similarity	81.1%;	Pred. No. 4.1e-190;		
Matches 770; Conservative	0;	Mismatches 180;	Indels 0;	Gaps 0;

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? FILING DATE: 28-DEC-1990
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? ATTORNEY/AGENT INFORMATION:
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? NAME: Mclelland, Le-Nhung
? REGISTRATION NUMBER: 31,541
? REFERENCE/DOCKET NUMBER: 900703G
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? TELEPHONE: (202) 659-2930
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? SEQUENCE CHARACTERISTICS:
? LENGTH: 6039 base pairs
? TYPE: nucleic acid
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? TOPOLOGY: linear
? MOLECULE TYPE: cDNA from genomic RNA
? FEATURE:
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? NAME/KEY: misc_feature
? LOCATION: 1..6039
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US-08-904-686A-11
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QY	121	GGCCCAAGTGTGGTGTGCGCGCAGCAGAGAGAATTCCAGCGGTCGCAACTCGCGGA	180	
Db	121	GGCCCAAGTGTGGTGTGCGCGCCACGAGAGAATTCCAGCGGTCGCAACTCGTGA	180	
QY	181	AGGCGACAGCTATTCGCCAAGGCTCGCGACCCGAGGGCAGGTCTTGAGCTCAGCTGGG	240	
Db	181	AGGCGACAACTTATTCGCCAAGGCTCGCGCGCAGAGACTTGAGCTCAGCTCAGG	240	
QY	241	TACCCATGAGCCCTCTATGCTAAAGAGGAGTGGCGGAGTGGTCTCTGCTCCCT	300	
Db	241	TACCTTGGCTCTCTATGCGAATGAGAGGCTTAAAGGTGGGAGGATGGCTCTGTCAACC	300	
QY	301	CGCGGCTCCGTCCTAGCTGGGGCCCAATGACCCCGACGTAGATCAACGAATTTGGGT	360	
Db	301	CGCGGCTCCCGGCTAGTTGGGGCCCAACGAGACCCCGGCGTATGCGCTAATTTGGGT	360	
QY	361	AAGGTCATGATACCTCTAAGTGTGGGTCTGGCGATCTCAATGGGGTACATTCGGCTGTC	420	
Db	361	AAGGTCATGATACCTCTAATGAGGCTTGGCCCATCTCATGGGGTACATTCGGCTGTC	420	
QY	421	GGCGCCCCCTAGGGGGGCGCTTCCAGAACCTCTGACATGAGTGTGCGGGTCTTGGNAGC	480	
Db	421	GGCGCCCCCTAGGGGGGCGCTGCCAGGGCCCTTGACATGAGTGTGCGGGTCTTGGAGAC	480	
QY	481	GGCGTGAATNNNNNNNNNNNAACCTTCGNGGTGTCTTTNNCTATCTTCCTGCTGGCN	540	
Db	481	GGCGTGAATATGCAACGAGGAATCTGCGGGTGTCTTTTCTATCTTCCTCTTGGCT	540	
QY	541	TTACTCTTGGCTCACAGTCCCAACCTCTGCTCATGAGGTGCAACAGCAACGATGAGC	600	
Db	541	CTGCTGTCTGTCTGACCAACCCAGCTTCCGCTTACGAGTGCAACAACGTGTCCGGGATA	600	
QY	601	TACCATGTCAATATGACTGTTCACAGGACGACTCGTATATGAGCAAGGACATATATC	660	
Db	601	TATCATGTCAAGAACGATGTCTTCCAGCGCAAGATTTGTATATGAGGACGCGCATTTATTC	660	

QY 661 CTTGACAGCCTGGGTGNGTCCCTGACATACGGAAGCAATATCTCCGTTGCTGGATA 720
 Db 661 ATGATATCTCTGGGTGGTGGTCCCTGCGTTGCGGAAGCACTCTCCCGCTGCTGGATA 720
 QY 721 CCGGTACCCCAAGCTTGTGAGCGCGGATGCGGAACGCTCCCATCATGATGAGTGGCGGT 780
 Db 721 GCGGTACTCCACAGCTGACGACGAAACCTCAACCATCCACACACATCATGACGACG 780
 QY 781 CAGCTGACCTCTCTGTTGGGGGACCGCTGTTGCTCAGCATATGATCATTTGAGGACCTT 840
 Db 781 CAGCTGACCTCTCTGTTGGGGGACCGCTGTTGCTCAGCATATGATCATTTGAGGACCTT 840
 QY 841 TGTGGGGGCGTCTTCTCTGTTGGGCAATGTTCACTTACGCTCCGCGGCAATGAG 900
 Db 841 TGGCGATCTGTTTCTCTCTGTTGAGCTGTTCACTTCTGCGCTCCGCGGCAATGAG 900
 QY 901 GTGAGCATCTGTAATGTTCCATTTACTCTGCGGCAATGAGGCGGACCG 950
 Db 901 TTACAGACCTGTAATGTTCAATTTATCCGCGCATGTTGCGGATCAACCG 950

RESULT 14

US-08-324-977-13
 ; Sequence 13, Application US/08324977
 ; Patent No. 5747339

GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 NUMBER OF INVENTIONS: CDNA AND ANTIGEN POLYPEPTIDE
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McJeland &
 ADDRESS: Naughton
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens-Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703D
 TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9030 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1..9030
 OTHER INFORMATION: /note: "sequence = 333 - 9362 of
 OTHER INFORMATION: SEQ ID NO: 1"
 NAME/KEY: CDS
 LOCATION: 1..9030
 US-08-324-977-13

Query Match 70.4%; Score 674; DB 2; Length 9030;

Best Local Similarity 81.1%; Pred. No. 5e-190;
 Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACGCAACCAACCGCGCCACAG 60
 Db 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAACGTAACCAACCGCGCCACAG 60
 QY 61 GACGTTAAATTTCCCGGTGGGGGGGCAATGTTGGGTGAGTTACTTTGTTCCGCGCAG 120
 Db 61 GACGTTAAATTTCCCGGTGGGGGGGCAATGTTGGGTGAGTTACTTTGTTCCGCGCAG 120
 QY 121 GGGCCGAGTTGGGTGTCGCGGACGAGGAAAGACTTCCGAGCGGTGCAACCTCGCGA 180
 Db 121 GGGCCGAGTTGGGTGTCGCGGACGAGGAAAGACTTCCGAGCGGTGCAACCTCGCGA 180
 QY 181 AGCGACAGCTTATCCCAAGGCTCGCCGACCCGAGGCGAGTCTGGGCTGACGCTGAG 240
 Db 181 AGCGACAGCTTATCCCAAGGCTCGCCGACCCGAGGCGAGTCTGGGCTGACGCTGAG 240
 QY 241 TACCCATGAGCCCTTATGCTATACGAGGCTGCGGATGCGCGGAGTGGCTCTGCTCC 300
 Db 241 TACCCATGAGCCCTTATGCTATACGAGGCTGCGGATGCGCGGAGTGGCTCTGCTCC 300
 QY 241 TACCTTGGGCTCTATGGAATGAGGCTTAAGGTTGAGGCAAGTGGCTCTGTCACCC 300
 Db 241 TACCTTGGGCTCTATGGAATGAGGCTTAAGGTTGAGGCAAGTGGCTCTGTCACCC 300
 QY 301 CGCGGCTCCCGTCTAGCTGGGGCCCAATGACCCCGACGTAGATCAGCAATTTGGGT 360
 Db 301 CGCGGCTCCCGTCTAGCTGGGGCCCAATGACCCCGACGTAGATCAGCAATTTGGGT 360
 QY 361 AAGGTATGATACCTTAACGTGTGCTTCCGATCTCATGGGGTACATTCGCTGCTC 420
 Db 361 AAGGTATGATACCTTAACGTGTGCTTCCGATCTCATGGGGTACATTCGCTGCTC 420
 QY 421 GGGGCCCCCTAGGGGGCGCTTCAGAAACCTTCACATGATGTCGCGGCTCGGNAAGC 480
 Db 421 GGGGCCCCCTAGGGGGCGCTTCAGAAACCTTCACATGATGTCGCGGCTCGGNAAGC 480
 QY 481 GGGGTATNNNNNNNNNNNNNAACCTTCNGGTTGCTTTNNCTATCTTCTCTGGCN 540
 Db 481 GGGGTATNNNNNNNNNNNNNAACCTTCNGGTTGCTTTNNCTATCTTCTCTGGCN 540
 QY 541 TTAATCTTTGCTCAAGTCCCACTTGTGCTATGAGGTGACAGACACCAACGATGCG 600
 Db 541 TTAATCTTTGCTCAAGTCCCACTTGTGCTATGAGGTGACAGACACCAACGATGCG 600
 QY 601 TACCATGTCACTATGACTGTTCCAAAGGAGATGTAATGAGGCAAGGACATCATC 660
 Db 601 TACCATGTCACTATGACTGTTCCAAAGGAGATGTAATGAGGCAAGGACATCATC 660
 QY 661 CTTGACAGCCTGGGTGNGTGGCCCTGATAGGGAAGGCAATATCTCCGTTGGGATA 720
 Db 661 CTTGACAGCCTGGGTGNGTGGCCCTGATAGGGAAGGCAATATCTCCGTTGGGATA 720
 QY 721 CCGGTACCCCAAGCTTGAGGCGGAGTGCAGACGCTCCATCATGATGAGTGGCGGCT 780

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Db      721 GCGCTCACTCCAGCTCGACGAGAAAGTCAACATCCACACGACATGACGAC 780
Qy      781 CACGTGACCTCCGCTGAGGGGAGCCGCTGTTGCTCAGCAGCATGATGAGGACCTT 840
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RESULT 15
US-08-384-616-13
Sequence 13, Application US/08384616

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GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hatlori, Mcleland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384, 616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 9030 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

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TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..9030
OTHER INFORMATION: /note: "sequence = 333 - 9362 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..9030
US-08-384-616-13

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Query Match 70.4%; Score 674; DB 2; Length 9030;
Best Local Similarity 81.1%; Pred. No. 5e-190;
Matches 770; Conservative 0; Mismatches 180; Indels 0; Gaps 0;

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Qy      1 ATGACGACGATCTTAACCTCAAAAGAAAACCAACGCAACCAACCGCCGACAG 60
Db      1 ATGAGCAGCATCTTAACCTCAAAAGAAAACCAACGTAACCAACCGCCGACAG 60
Qy      61 GACGTTAAATTTCCGGGTGGGGGAGATGCTGGTGAAGTTACTTGTGGCGGAGG 120
Db      61 GACGTCAAGTTCCCGGCGGTGTGATGCTGTGAGTTTACCTGTTGCGCGAGG 120
Qy      121 GGCCCGAGTTGGGTGTGCGCGAGAGAGAACTTCCAGCGGTGCAACCTCGCGGA 180
Db      121 GGCCCGAGTTGGGTGTGCGCGAGAGAGAACTTCCAGCGGTGCAACCTCGGTGA 180
Qy      181 AGCGACAGCTTATCCCAAGGCTCGCCGACCCGAGGAGGTCTGGGCTCAGCTGGG 240
Db      181 AGCGACAGCTTATCCCAAGGCTCGCCGAGGAGGTCTGGGCTCAGCTGAGCGG 240
Qy      241 TACCGATGGCCCTTATAGTATACGAGGAGGTGGATGGCGGAGGTCTCTGCTCC 300
Db      241 TACCTTGGCTCTTATGGAATGAGGCTTATGAGGTGGAGATGGCTCTGTGACCC 300
Qy      301 CGCGGCTCCGATCTAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
Db      301 CGCGGCTCCGAGCTAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
Qy      361 AAGGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 420
Db      361 AAGGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 420
Qy      421 GGGGCCCCCTAGGGGGGCGTTCCAGAACCTGNCACATGATGTCGGGGCTCGNAGG 480
Db      421 GGGGCCCCCTAGGGGGGCGTTCCAGAACCTGNCACATGATGTCGGGGCTCGNAGG 480
Qy      481 GCGGTATNNNNNNNNNNNNNAACCTTCGNGTGTCTTTNNCTATCTTCTCTTGAGC 540
Db      481 GCGGTATNNNNNNNNNNNNNAACCTTCGNGTGTCTTTNNCTATCTTCTCTTGAGC 540
Qy      541 TTAAGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 600
Db      541 TTAAGTATGATATACCTTAACGTTGCTTCCGATCTCAATGGGATCAATTCGCTGTC 600
Qy      601 TACCATGATATATAGTATGTTCCAGGAGAGATGATATAGGCAAAAGACATCATC 660
Db      601 TATCATGATATATAGTATGTTCCAGGAGAGATGATATAGGCAAAAGACATCATC 660
Qy      661 CTTCACAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
Db      661 ATGCAATATCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 720
Qy      721 CGGCTACACCCCAAGCTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
Db      721 GCGCTCACTCCACGCTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
Qy      781 CACGTGACCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Db      781 CACGTGACCTCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Qy      841 TGTGGGGGCGCTTCTCTGTTGGGCAATGTTTCACTTCAAGTCCCGGCGCATTTGAGC 900

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Db 841 TGGGATCTGTTTCTCTCTCAGCTGTTCACTTCTCGCCTCGCGGCATGTGACA 900

QY 901 GTGAGAGACTGTAACTTTCATTTCCTGCTGCGCCACATACGGCCACCG 950

Db 901 TTACAGGACTGTAACTGCTCAATTATCCGCGCATGTGCGGGTCAACCG 950

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Job time : 239.834 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.0414 Seconds
(Without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-13
Perfect score: 310
Sequence: 1 atgagcacaatcctaacc.....cctgtcccccagagctctc 310

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	280.8	90.6	957	3	US-08-836-075A-17
3	274.4	88.5	310	3	US-08-836-075A-21
4	274.4	88.5	573	2	US-08-290-665A-125
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8	271.2	87.5	549	3	US-08-441-971-65
9	271.2	87.5	549	3	US-08-221-653-65
10	271.2	87.5	549	3	US-08-442-144A-65
11	271.2	87.5	549	3	US-08-441-970-65
12	271.2	87.5	573	2	US-08-290-665A-128
13	271.2	87.5	573	6	PCT-US95-10398-128
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16	268	86.5	510	3	US-08-442-144A-66
17	268	86.5	510	3	US-08-441-970-66
18	268	86.5	957	3	US-09-878-281A-143
19	268	86.5	9589	2	US-07-925-695-1
20	268	86.5	9589	2	US-07-925-695-2
21	266.4	85.9	573	2	US-08-290-665A-126
22	266.4	85.9	573	6	PCT-US95-10398-126
23	265.8	85.7	1195	3	US-08-836-075A-75
24	263.2	84.9	573	2	US-08-290-665A-132

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26	261.6	84.4	573	2	US-08-290-665A-127	Sequence 127, App
27	261.6	84.4	573	6	PCT-US95-10398-127	Sequence 127, App
28	260	83.9	573	2	US-08-290-665A-131	Sequence 131, App
29	260	83.9	573	2	US-08-290-665A-133	Sequence 133, App
30	260	83.9	573	6	PCT-US95-10398-131	Sequence 131, App
31	260	83.9	573	6	PCT-US95-10398-133	Sequence 133, App
32	258.4	83.4	369	2	US-08-081-072-14	Sequence 14, App
33	258.4	83.4	369	2	US-08-449-093A-14	Sequence 14, App
34	258.4	83.4	573	2	US-08-290-665A-130	Sequence 130, App
35	258.4	83.4	573	6	PCT-US95-10398-130	Sequence 130, App
36	258	83.2	9511	2	US-07-925-695-6	Sequence 6, App
37	258	83.2	9511	2	US-07-925-695-7	Sequence 7, App
38	255.2	82.3	573	2	US-08-290-665A-129	Sequence 129, App
39	255.2	82.3	573	6	PCT-US95-10398-129	Sequence 129, App
40	244	78.7	573	3	US-09-194-949A-5	Sequence 5, App
41	240.8	77.7	669	2	US-08-143-578A-3	Sequence 3, App
42	240.8	77.7	669	2	US-08-143-578A-3	Sequence 3, App
43	240.8	77.7	669	2	US-08-454-928-7	Sequence 7, App
44	239.2	77.2	549	3	US-08-441-971-62	Sequence 62, App
45	239.2	77.2	549	3	US-08-221-653-62	Sequence 62, App

ALIGNMENTS

RESULT 1
US-08-836-075A-13
Sequence 13, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-13

Query Match 99.4%; Score 308; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 1e-85;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCGCCGGCGCGCGCAAGTCGTTGCGAGTTACTTGTGCGCGCAGG 120
DB 61 GAGCTCAAGTTCGCCGGCGCGCGCAAGTCGTTGCGAGTTACTTGTGCGCGCAGG 120
QY 121 GCGCCAGATTGGGTGTGCGCGCGCAAGAAAGCTTGTGAACGGTCCCGACCGTGA 180
DB 121 GCGCCAGATTGGGTGTGCGCGCGCAAGAAAGCTTGTGAACGGTCCCGACCGTGA 180
QY 181 AGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGCGAGGTCCTGCGGAGCGTCCAGGA 240
DB 181 AGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGCGAGGTCCTGCGGAGCGTCCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGCGAGATGAGCTCTGTCGCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGCGAGATGAGCTCTGTCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 2

US-08-836-075A-17
Sequence 17, Application US/08836075A

Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9487016.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9587007.6
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:

LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-17

Query Match 90.6%; Score 280.8; DB 3; Length 957;
Best Local Similarity 93.9%; Pred. No. 4.3e-77;
Matches 291; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCCTAAACCTCAAGAAAAACCAAAATAACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCGCCGGCGCGCGCAAGTCGTTGCGAGTTACTTGTGCGCGCAGG 120
DB 61 GAGCTCAAGTTCGCCGGCGCGCGCAAGTCGTTGCGAGTTACTTGTGCGCGCAGG 120
QY 121 GCGCCAGATTGGGTGTGCGCGCGCAAGAAAGCTTGTGAACGGTCCCGACCGTGA 180
DB 121 GCGCCAGATTGGGTGTGCGCGCGCAAGAAAGCTTGTGAACGGTCCCGACCGTGA 180
QY 181 AGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGCGAGGTCCTGCGGAGCGTCCAGGA 240
DB 181 AGGCGCAGCCCATCCCTAAAGATCGGNGGCCACTGCGAGGTCCTGCGGAGCGTCCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGCGAGATGAGCTCTGTCGCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGGGCTCGGCTGGCGAGATGAGCTCTGTCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 3

US-08-836-075A-21
Sequence 21, Application US/08836075A

Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9487016.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9587007.6
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS-004
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-21

Query Match 88.5%; Score 274.4; DB 3; Length 310;
Best Local Similarity 92.6%; Pred. No. 2.6e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACCGCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGCGCGCGCGAGATCGTTGCGAGTTTACTTGTTCGCGCAGG 120
DB 61 GAGCTTAAGTTCCTCCGCGCGCGCGAGATCGTTGCGAGTTTACTTGTTCGCGCAGG 120
QY 121 GGGCCCCAGATTGGGTGTGCGCGCAGACGAGAAAGACTTCTGACGCTCCACGCGAG 180
DB 121 GGGCCCCAGATTGGGTGTGCGCGCAGACGAGAAAGACTTCTGACGCTCCACGCGAG 180
QY 181 AGGCGCAGCGCCATCCCTAAAGATCGGNGNGCACTGCGAGGTCCTGGGGACGTCAGGA 240
DB 181 AGGCGCAGCGCCATCCCTAAAGATCGGNGNGCACTGCGAGGTCCTGGGGACGTCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGCGCTCGCTGCGGAGGATGCTCTGTCCTCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGCGCTCGCTGCGGAGGATGCTCTGTCCTCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 4
US-08-290-665A-125
Sequence 125, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BURK, J., MILLER, R.H. AND
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 125:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: T4
US-08-290-665A-125

Query Match 88.5%; Score 274.4; DB 2; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACCGCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGCGCGCGCGAGATCGTTGCGAGTTTACTTGTTCGCGCAGG 120
DB 61 GAGCTTAAGTTCCTCCGCGCGCGCGAGATCGTTGCGAGTTTACTTGTTCGCGCAGG 120
QY 121 GGGCCCCAGATTGGGTGTGCGCGCAGACGAGAAAGACTTCTGACGCTCCACGCGAG 180
DB 121 GGGCCCCAGATTGGGTGTGCGCGCAGACGAGAAAGACTTCTGACGCTCCACGCGAG 180
QY 181 AGGCGCAGCGCCATCCCTAAAGATCGGNGNGCACTGCGAGGTCCTGGGGACGTCAGGA 240
DB 181 AGGCGCAGCGCCATCCCTAAAGATCGGNGNGCACTGCGAGGTCCTGGGGACGTCAGGA 240
QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGGCGCTCGCTGCGGAGGATGCTCTGTCCTCC 300
DB 241 TATCCCTGGCCCCCTGTATGGGAACGAGGCGCTCGCTGCGGAGGATGCTCTGTCCTCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 5
US-08-290-665A-134
Sequence 134, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BURK, J., MILLER, R.H. AND
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1

```

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
;
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: hominapiens
; INDIVIDUAL ISOLATE: S83
;
; US-08-290-665A-134
;
Query Match      88.5%; Score 274.4; DB 2; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY      1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB      1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60

QY      61 GACGTCAAGTTCGCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
DB      61 GACGTCAAGTTCGCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120

QY      121 GGGCCAGATTGGGTGTGTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
DB      121 GGGCCAGATTGGGTGTGTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180

QY      181 AGGGGCGGAGCCATCTCTAAAGATCGGNGCCCACTGCGAGAGTCTCTGGGAGCGTCCAGGA 240
DB      181 AGGGGCGGAGCCATCTCTAAAGATCGGNGCCCACTGCGAGAGTCTCTGGGAGAGGCCAGGA 240

QY      241 TATCCCTGGCCCTGTATGAGGAAGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCCCCC 300
DB      241 TATCCCTGGCCCTGTATGAGGAATGAGGGCTCTGGCTGGGAGAGGCTCTGTCTCCCC 300

QY      301 CGAGGCTCTC 310
DB      301 CGCGATTCTC 310

RESULT 6
PCT-US95-10398-125
; Sequence 125, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK

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;
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
;
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 125:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: hominapiens
; INDIVIDUAL ISOLATE: T4
;
; PCT-US95-10398-125
;
Query Match      88.5%; Score 274.4; DB 6; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY      1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB      1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60

QY      61 GACGTCAAGTTCGCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120
DB      61 GACGTCAAGTTCGCCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 120

QY      121 GGGCCAGATTGGGTGTGTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
DB      121 GGGCCAGATTGGGTGTGTCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180

QY      181 AGGGGCGGAGCCATCTCTAAAGATCGGNGCCCACTGCGAGAGTCTCTGGGAGCGTCCAGGA 240
DB      181 AGGGGCGGAGCCATCTCTAAAGATCGGNGCCCACTGCGAGAGTCTCTGGGAGAGGCCAGGA 240

QY      241 TATCCCTGGCCCTGTATGAGGAAGAGGGGCTCGGCTGGGAGAGATGGCTCTGTCTCCCC 300
DB      241 TATCCCTGGCCCTGTATGAGGAATGAGGGCTCTGGCTGGGAGAGGCTCTGTCTCCCC 300

QY      301 CGAGGCTCTC 310
DB      301 CGAGGTTCCC 310

RESULT 7
PCT-US95-10398-134
; Sequence 134, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263

```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US95/10398
;; FILING DATE: 15-AUG-1995
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/086,428
;; FILING DATE: 29 JUNE 1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/290/665
;; FILING DATE: 15 AUGUST 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 134:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORIGINAL SOURCE:
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: S83
;; PCT-US95-10398-134

Query Match 88.5%; Score 274.4; DB 6; Length 573;
Best Local Similarity 92.6%; Pred. No. 3.3e-75;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGGGGGGGGGCGGCGCAATCGTTGGCGAGTTTACTTGTGGCGGCGAG 120
DB 61 GAGCTCAAGTTCCTCCGGGGGGGGGGGCGGCGCAATCGTTGGCGAGTTTACTTGTGGCGGCGAG 120
QY 121 GGCCCGAGATTGGGTGTGCGCGCGAGCGAAGAAAGATTCTGAACGGATCCAGCCAGCTGGA 180
DB 121 GGCCCGAGATTGGGTGTGCGCGCGAGCGAAGAAAGATTCTGAACGGATCCAGCCAGCTGGA 180
QY 181 AGCGCGCAAGCCATCTCTAAAGATCGAGNGGCCACTGGCAGAGTCTTGGGGAAGCTCCAGGA 240
DB 181 AGCGCGCAAGCCATCTCTAAAGATCGAGNGGCCACTGGCAGAGTCTTGGGGAAGCTCCAGGA 240
QY 241 TATCCCTGGCCCGCTGTATGGGAACGAGAGGGCTCGGCTGGCGAGATGGCTCTCTCCGCC 300
DB 241 TATCCCTGGCCCGCTGTATGGGAACGAGAGGGCTCGGCTGGCGAGATGGCTCTCTCTCCGCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 8
US-08-441-971-65
; Sequence 65, Application US/08441971

;; Patent No. 6071693
;; GENERAL INFORMATION:
;; APPLICANT: Tai-An Cha
;; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
;; NUMBER OF SEQUENCES: 147
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
;; STREET: 600 Atlantic Avenue
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02210
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: diskette, 5.25 inch
;; COMPUTER: IBM compatible
;; OPERATING SYSTEM: MS-DOS Version 3.3
;; SOFTWARE: Wordperfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/441,971
;; FILING DATE: 16-MAY-1995
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/221,653
;; FILING DATE:
;; APPLICATION NUMBER: US/07/881,528
;; FILING DATE:
;; APPLICATION NUMBER: 07/697,326
;; FILING DATE: 8 May 1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Janluk, Anthony J.
;; REGISTRATION NUMBER: 29,809
;; REFERENCE/DOCKET NUMBER: C0772/7000
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 720-3500
;; TELEFAX: (617) 720-2441
;; TELEX: EZEKIEL
;; INFORMATION FOR SEQ ID NO: 65:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 549 nucleotides
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: 110
;; US-08-441-971-65

Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3.2e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
DB 1 ATGAGCAAAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCCTCCGGGGGGGGGGGCGGCGCAATCGTTGGCGAGTTTACTTGTGGCGGCGAG 120
DB 61 GAGCTCAAGTTCCTCCGGGGGGGGGGGCGGCGCAATCGTTGGCGAGTTTACTTGTGGCGGCGAG 120
QY 121 GGCCCGAGATTGGGTGTGCGCGCGAGCGAAGAAAGATTCTGAACGGATCCAGCCAGCTGGA 180
DB 121 GGCCCGAGATTGGGTGTGCGCGCGAGCGAAGAAAGATTCTGAACGGATCCAGCCAGCTGGA 180
QY 181 AGCGCGCAAGCCATCTCTAAAGATCGAGNGGCCACTGGCAGAGTCTTGGGGAAGCTCCAGGA 240
DB 181 AGCGCGCAAGCCATCTCTAAAGATCGAGNGGCCACTGGCAGAGTCTTGGGGAAGCTCCAGGA 240
QY 241 TATCCCTGGCCCGCTGTATGGGAACGAGAGGGCTCGGCTGGCGAGATGGCTCTCTCCGCC 300
DB 241 TATCCCTGGCCCGCTGTATGGGAACGAGAGGGCTCGGCTGGCGAGATGGCTCTCTCTCCGCC 300
QY 301 CGAGGCTCTC 310

Db 301 CGTGGCTCTC 310

RESULT 9
US-08-221-653-65
; Sequence 65, Application US/08221653
; Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF INVENTION: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:

APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: 110

US-08-221-653-65

Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3.2e-74;

Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAAACAATAACCAACCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAACCTCAAGAAAAAACAATAACCAACCGCCGCCACAG 60
QY 61 GAGGTCAAGTTCCCGGGCGGGCGGCGAGATCGTTGGCGGAGTTTACTTTGTCGCGGACAG 120
Db 61 GAGGTCAAGTTCCCGGGCGGGCGGCGAGATCGTTGGCGGAGTTTACTTTGTCGCGGACAG 120
QY 121 GGGCCAGATTGGGTGTGCGCGCGAGCGAAGAAAGACTTTCTGAACGGTCCAGCCAGGTGA 180
Db 121 GGGCCAGATTGGGTGTGCGCGCGAGCGAAGAAAGACTTTCTGAACGGTCCAGCCAGGTGA 180
QY 181 AGGGCCAGCCCATCTTAAGATGGGNGGCCACTGGGAGGTCTCTGGGAGCTTCAGGA 240
Db 181 AGGGCCAGCCCATCTTAAGATGGTGTGCGACCGGTGGCAAGTCTCTGGGAGGAGCGAGGA 240

QY 241 TATCCTGGCCCTGTATGGAACGAGGGGCTCGGCGGAGATGAGTCTGTCTGCCCC 300
Db 241 TATCCTGGCCCTGTATGGAATGAGGGTCTGGGCGGAGGGTGGCTCTGTCTGCCCC 300

QY 301 CGAGCTCTC 310

RESULT 10
US-08-442-144A-65
; Sequence 65, Application US/08442144A
; Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF INVENTION: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995

CLASSIFICATION: 435

FILING DATE: MAY 16, 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/421,653
FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 65:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: 110

US-08-442-144A-65

Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3.2e-74;

Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAAACAATAACCAACCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAACCTCAAGAAAAAACAATAACCAACCGCCGCCACAG 60
QY 61 GAGGTCAAGTTCCCGGGCGGGCGGCGAGATCGTTGGCGGAGTTTACTTTGTCGCGGACAG 120
Db 61 GAGGTCAAGTTCCCGGGCGGGCGGCGAGATCGTTGGCGGAGTTTACTTTGTCGCGGACAG 120
QY 121 GGGCCAGATTGGGTGTGCGCGCGAGCGAAGAAAGACTTTCTGAACGGTCCAGCCAGGTGA 180

Db 121 GAGCCGAGATGAGTGTGCGCGCAGAGGAAAACCTCCAGATCCAGCAGCGGGA 180
Qy 181 AGGCGCAGCCATCCCTAAAGATCGGNGGCCACTGCGAGTCTCTGGGAGCGTCCAGGA 240
Db 181 AGGCGTACGCCATCCCTAAAGATGTGCGACCCCTGCGCAAGTCTTGGGAGAGCGCAGGA 240
Qy 241 TATCCCTGAGCCCTGTATGGGAAAGAGAGGCTCGGCTGGGAGAGATGGCTCTGTCCCC 300
Db 241 TATCTTGGCCCCCTGTATGGGAAATGAGGCTCTGGGAGAGGCTCTGTCCCC 300
Qy 301 CGAGGCTCTC 310
Db 301 CGTGGCTCTC 310

RESULT 11
US-08-441-970-65
; Sequence 65, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: 110
; US-08-441-970-65

Query Match 87.5%; Score 271.2; DB 3; Length 549;
Best Local Similarity 91.9%; Pred. No. 3.2e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAATACCAACGCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAAAGAAACAACTAACCGCCGCCACAG 60

Qy 61 GAGCTCAAGTCTCCGGGCGCGCGCCAGATGTTGGCGAGATTACTTGTTCGCCGCGAG 120
Db 61 GAGCTCAAGTCTCCGGGCGCGCGCCAGATGTTGGCGAGATTACTTGTTCGCCGCGAG 120
Qy 121 GAGCCCAAGATTGGGTGTGGCGCGAGAGAGAAACTTCTGAACGGTCCAGCCAGTGA 180
Db 121 GAGCCCAAGATTGGGTGTGGCGCGAGAGAGAAACTTCCGAAGATCCAGCCAGCGGA 180
Qy 181 AGGCGCAGCCATCCCTAAAGATCGGNGGCCACTGCGAGGCTCTGGGAGAGTCCAGGA 240
Db 181 AGGCGTACGCCATCCCTAAAGATGTGCGACCCCTGCGCAAGTCTTGGGAGAGCGCAGGA 240
Qy 241 TATCCCTGAGCCCTGTATGGGAAAGAGAGGCTCGGCTGGGAGAGATGGCTCTGTCCCC 300
Db 241 TATCTTGGCCCCCTGTATGGGAAATGAGGCTCTGGGAGAGGCTCTGTCCCC 300
Qy 301 CGAGGCTCTC 310
Db 301 CGTGGCTCTC 310

RESULT 12
US-08-290-665A-128
; Sequence 128, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 128:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homoplans
; INDIVIDUAL ISOLATE: T2
; US-08-290-665A-128

Query Match 87.5%; Score 271.2; DB 2; Length 573;
Best Local Similarity 91.9%; Pred. No. 3.3e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAATACCAACCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAATACCAACCGCCGCCACAA 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCCAGATCGTTGCGGAGTTTACTTGTTCGCCGCAAG 120
Db 61 GACGTCAAGTTCCCGGCGCGCGCCAGATCGTTGCGGAGTTTACTTGTTCGCCGCAAG 120
QY 121 GGGCCCGAGTTGGGTGTGCGCGGACGAGAAAGACTTCTGACGATCCCGACGCGTGA 180
Db 121 GGGCCCGAGTTGGGTGTGCGCGGACGAGAAAGACTTCTGACGATCCCGACGCGTGA 180
QY 181 AGGCGCCAGCCCATCCCTAAAGATCGGNGCCACTGCGCAGTCTGCGGACGTCACAGA 240
Db 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGCGCAGTCTGCGGAAAAACAGGA 240
QY 241 TATCCCTGGCCCTGTATGGGACGAGGCGCTCGGCTGGGAGAGATGGCTCTCTCCCCC 300
Db 241 TACCCCTGGCCCTGTATGGGATGAGGCGCTCGGCTGGGAGAGATGGCTCTCTCCCCC 300
QY 301 CGAGGCTCTC 310
Db 301 CGAGGCTCTC 310

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RESULT 13
PCT-US95-10398-128
; Sequence 128, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 128:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: T2
PCT-US95-10398-128

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Query Match 87.5%; Score 271.2; DB 6; Length 573;
Best Local Similarity 91.9%; Pred. No. 3.3e-74;
Matches 285; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAATACCAACCGCCGCCACAG 60
Db 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAATACCAACCGCCGCCACAA 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCCAGATCGTTGCGGAGTTTACTTGTTCGCCGCAAG 120
Db 61 GACGTCAAGTTCCCGGCGCGCGCCAGATCGTTGCGGAGTTTACTTGTTCGCCGCAAG 120
QY 121 GGGCCCGAGTTGGGTGTGCGCGGACGAGAAAGACTTCTGACGATCCCGACGCGTGA 180
Db 121 GGGCCCGAGTTGGGTGTGCGCGGACGAGAAAGACTTCTGACGATCCCGACGCGTGA 180
QY 181 AGGCGCCAGCCCATCCCTAAAGATCGGNGCCACTGCGCAGTCTGCGGACGTCACAGA 240
Db 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGCGCAGTCTGCGGAAAAACAGGA 240
QY 241 TATCCCTGGCCCTGTATGGGACGAGGCGCTCGGCTGGGAGAGATGGCTCTCTCCCCC 300
Db 241 TACCCCTGGCCCTGTATGGGATGAGGCGCTCGGCTGGGAGAGATGGCTCTCTCCCCC 300
QY 301 CGAGGCTCTC 310
Db 301 CGAGGCTCTC 310

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RESULT 14
US-08-441-971-66
; Sequence 66, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/891,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE:
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441

```

TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 66:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 510 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: arg6
 US-08-441-971-66

Query Match 86.5%; Score 268; DB 3; Length 510;
 Best Local Similarity 91.3%; Pred. No. 3.1e-73;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
 DB 1 ATGAGCACAATCTCTCAACCTCAAGAAAAACCAAGAAACACTAACCGCCGCCACAG 60
 QY 61 GAGGTCAAGTCCCGGGCGGCGGCGCAGATCGTTGGCGGAGTTTCTTTGCGCGGAGG 120
 DB 61 GAGGTCAAGTCCCGGGCGGCGGCGCAGATCGTTGGCGGAGTTTCTTTGCGCGGAGG 120
 QY 121 GAGCCCAAGATTGGGTGTGCGCGCAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 DB 121 GAGCCCAAGATTGGGTGTGCGCGCAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 QY 181 AGGCGCCAGCCCATCTCTAAAGATCGGNGCCACTGCGCAGATCTTGCGGGAAGTCCAGGA 240
 DB 181 AGGCGCCAGCCCATCTCTAAAGATCGGNGCCACTGCGCAGATCTTGCGGGAAGTCCAGGA 240
 QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGAGGGCTCGGCTGGGAGAGATGGCTCTTCCCC 300
 DB 241 TACCTTGGCCCCCTGTATGGGAATGAGGGTCTCGGCTGGGAGAGATGGCTCTTCCCC 300
 QY 301 CGAGGCTCTC 310
 DB 301 CGCGTTCTC 310

RESULT 15
 US-08-221-653-66
 Sequence 66, Application US/08221653
 Patent No. 6190864
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 66:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 510 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: arg6
 US-08-221-653-66

Query Match 86.5%; Score 268; DB 3; Length 510;
 Best Local Similarity 91.3%; Pred. No. 3.1e-73;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTCTAAACCTCAAGAAAAACCAAGAAATACCAACCGCCGCCACAG 60
 DB 1 ATGAGCACAATCTCTCAACCTCAAGAAAAACCAAGAAACACTAACCGCCGCCACAG 60
 QY 61 GAGGTCAAGTCCCGGGCGGCGGCGCAGATCGTTGGCGGAGTTTCTTTGCGCGGAGG 120
 DB 61 GAGGTCAAGTCCCGGGCGGCGGCGCAGATCGTTGGCGGAGTTTCTTTGCGCGGAGG 120
 QY 121 GAGCCCAAGATTGGGTGTGCGCGCAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 DB 121 GAGCCCAAGATTGGGTGTGCGCGCAGAGAAAGACTTCTGAACGATCCCAAGCAGTGA 180
 QY 181 AGGCGCCAGCCCATCTCTAAAGATCGGNGCCACTGCGCAGATCTTGCGGGAAGTCCAGGA 240
 DB 181 AGGCGCCAGCCCATCTCTAAAGATCGGNGCCACTGCGCAGATCTTGCGGGAAGTCCAGGA 240
 QY 241 TATCCCTGGCCCCCTGTATGGGAACGAGAGGGCTCGGCTGGGAGAGATGGCTCTTCCCC 300
 DB 241 TACCTTGGCCCCCTGTATGGGAATGAGGGTCTCGGCTGGGAGAGATGGCTCTTCCCC 300
 QY 301 CGAGGCTCTC 310
 DB 301 CGCGTTCTC 310

Search completed: January 11, 2006, 04:37:43
 Job time : 78.0414 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 143.893 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-15
Perfect score: 579
Sequence: 1 acgtgcgnttgcgcacct.....ttacagtcacgcgcgcgcg 579

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_MA:*
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
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5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	570	98.4	579	3	US-08-836-075A-15 Sequence 15, Appl
2	402.8	69.6	957	3	US-08-836-075A-17 Sequence 17, Appl
3	366.8	63.4	957	3	US-09-878-281A-143 Sequence 143, Appl
4	351.8	60.8	1195	3	US-08-836-075A-75 Sequence 75, Appl
5	330	57.0	9589	2	US-07-925-695-1 Sequence 1, Appl
6	330	57.0	9589	2	US-07-925-695-2 Sequence 2, Appl
7	329.8	57.0	9511	2	US-07-925-695-6 Sequence 6, Appl
8	329.8	57.0	9511	2	US-07-925-695-7 Sequence 7, Appl
9	288.4	49.8	447	3	US-08-836-075A-19 Sequence 19, Appl
10	255.8	44.2	447	3	US-08-836-075A-23 Sequence 23, Appl
11	253.8	43.8	11076	3	US-09-539-601-1 Sequence 1, Appl
12	253.8	43.8	11076	3	US-09-539-601-19 Sequence 19, Appl
13	253.8	43.8	11076	3	US-09-539-601-25 Sequence 25, Appl
14	253.8	43.8	11076	3	US-09-539-601-31 Sequence 31, Appl
15	247.4	42.7	957	3	US-08-836-075A-47 Sequence 47, Appl
16	245.8	42.5	633	3	US-08-612-973-7 Sequence 7, Appl
17	245.8	42.5	633	3	US-08-927-597-7 Sequence 7, Appl
18	245.8	42.5	633	3	US-08-927-597-7 Sequence 7, Appl
19	245.8	42.5	1539	2	US-08-470-426B-16 Sequence 16, Appl
20	245.8	42.5	1863	2	US-08-470-426B-13 Sequence 13, Appl
21	244.2	42.2	9275	3	US-10-259-275-39 Sequence 39, Appl
22	242.6	41.9	795	3	US-08-612-973-5 Sequence 5, Appl
23	242.6	41.9	795	3	US-08-927-597-5 Sequence 5, Appl
24	242.6	41.9	795	3	US-08-928-757-5 Sequence 5, Appl

25	242.6	41.9	932	2	US-08-081-072-15 Sequence 15, Appl
26	242.6	41.9	932	2	US-08-449-093A-15 Sequence 15, Appl
27	242.6	41.9	1037	2	US-08-462-195-1 Sequence 1, Appl
28	242.6	41.9	1037	2	US-08-462-195-3 Sequence 3, Appl
29	242.6	41.9	1037	2	US-08-636-883-1 Sequence 1, Appl
30	242.6	41.9	1037	2	US-08-636-883-3 Sequence 3, Appl
31	242.6	41.9	1037	3	US-09-127-829-1 Sequence 1, Appl
32	242.6	41.9	1037	3	US-09-127-829-3 Sequence 3, Appl
33	242.6	41.9	2082	3	US-08-612-973-47 Sequence 47, Appl
34	242.6	41.9	2082	3	US-08-927-597-47 Sequence 47, Appl
35	242.6	41.9	2082	3	US-08-928-757-47 Sequence 47, Appl
36	242.6	41.9	2433	3	US-08-612-973-49 Sequence 49, Appl
37	242.6	41.9	2433	3	US-08-927-597-49 Sequence 49, Appl
38	242.6	41.9	2433	3	US-08-928-757-49 Sequence 49, Appl
39	242	41.8	579	3	US-08-878-281A-173 Sequence 173, Appl
40	241	41.6	12980	3	US-08-811-566-5 Sequence 5, Appl
41	241	41.6	12980	3	US-09-034-756-5 Sequence 5, Appl
42	239.6	41.4	957	3	US-08-836-075A-41 Sequence 41, Appl
43	239.4	41.3	636	3	US-08-612-973-13 Sequence 13, Appl
44	239.4	41.3	636	3	US-08-927-597-13 Sequence 13, Appl
45	239.4	41.3	636	3	US-08-928-757-13 Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-15
; Sequence 15, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P O BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO

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; ANTI-SENSE: NO
US-08-836-075A-15
Query Match          98.4%; Score 570; DB 3; Length 579;
Best Local Similarity 100.0%; Pred. No. 1,le-155;
Matches 579; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1  ACCTGCGGNTNTGCGCACTCATATGGGGTACATNCCCGTTGTCCGCGCCCGGTGGCGGG 60
DB      1  ACGTGGGATNTGCGCACTCATATGGGGTACATNCCCGTTGTCCGCGCCCGGTGGCGGG 60

OY      61  GTNCGCAGGGCCCTCGCGNATGGCGTGGCGGGTCTGTGAGGACGGGATTAATTATGNACA 120
DB      61  GTNCGCAGGGCCCTCGCGNATGGCGTGGCGGGTCTGTGAGGACGGGATTAATTATGNACA 120

OY      121  GGGAACTTCCTGTTGGTGTCTCTTTTCTATCTTCTGTTGGCTCTTGTCTTGTGTACCC 180
DB      121  GGGAACTTCCTGTTGGTGTCTCTTTTCTATCTTCTGTTGGCTCTTGTCTTGTGTACCC 180

OY      181  GTGCTGTCTCTGNCGTTAGGTCAAAATAACAGTACAGGCTTATATGAGCAACACGAC 240
DB      181  GTGCTGTCTCTGNCGTTAGGTCAAAATAACAGTACAGGCTTATATGAGCAACACGAC 240

OY      241  TGCTCCAAACAAGCATTCGTATGGCAATTGAGNAGACGGGCTTCAATGTTCCGTGANTGT 300
DB      241  TGCTCCAAACAAGCATTCGTATGGCAATTGAGNAGACGGGCTTCAATGTTCCGTGANTGT 300

OY      301  GTCCCTCGAGAAATAGCTCCGGTGGTTCACATGTTGATATCCGATCTCGCCACAATA 360
DB      301  GTCCCTCGAGAAATAGCTCCGGTGGTTCACATGTTGATATCCGATCTCGCCACAATA 360

OY      361  GCGGTAGCAAAACCTGCTGCTCTCACCAAGGACCTGCGGACGACATTTGATGCCGTG 420
DB      361  GCGGTAGCAAAACCTGCTGCTCTCACCAAGGACCTGCGGACGACATTTGATGCCGTG 420

OY      421  AAGTCGGCAACCTGCTGCTGCTGCTGCTGTAAGTGGAGATGTGTCGGGCGACGATGATA 480
DB      421  AAGTCGGCAACCTGCTGCTGCTGCTGCTGTAAGTGGAGATGTGTCGGGCGACGATGATA 480

OY      481  GCTGCAAGGCTTTATCGTGACACCGACCATTAATCTTGTCTCAGAGATGCAATTGC 540
DB      481  GCTGCAAGGCTTTATCGTGACACCGACCATTAATCTTGTCTCAGAGATGCAATTGC 540

OY      541  TCCATATACCCAGGCCACATTAAGTCATGCAATGCGC 579
DB      541  TCCATATACCCAGGCCACATTAAGTCATGCAATGCGC 579

RESULT 2
US-08-836-075A-17
; Sequence 17, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A

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; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE FOR SEQ ID NO: 17:
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
US-08-836-075A-17

Query Match      69.6%; Score 402.8; DB 3; Length 957;
Best Local Similarity 80.4%; Pred.No.5.2e-107;
Matches 464; Conservative 1; Mismatches 112; Indels 0; Gaps 0;

QY      1  ACGTGGCGGNTTGGCGACCTCATATGGGGGAGCAATNCCCGTTGCCGGCCCCGGTGGGCGGG 60
DB      379  ACGGTGGCTTTGGSCGACTCATTAGGGGAGCACTCTGTCTGGCGCCCCCTGTGGCGGC 438
QY      61  GTNCCAGAGGCGCTTCGCGNATGGCGTGGCGGTCCTGAGAGA CGGAGTAATAATGMAACA 120
DB      439  GTTGCAGAGCGCTTCGCGCATGGGTGGGGTCTGAGAGACGGGATAAATATGCAACA 498
QY      121  GGGAACTCCTCGTGTCTCTTTTCTATCTTTCTNCTGCTCTCTCTCTCTCTCTCTCTCAC 180
DB      499  GGGAACTTGGCCCGGTGTCTCTTTTCTATCTTTCTGCTGGGCTCTCTCTCTGTAATCAC 558
QY      181  GTGCTGTCTCTGNCGTTGAAGSTCAAAAATAACAAGTCAGGCGCTPATATGGCAACCAAGAC 240
DB      559  GTGCCCGTCTGCGCATACAGATTAAAGAACACAGCCA CTTCATATGGCACTAATGAC 618
QY      241  TGCTTCAACAACAGCATCGTATGGCAATTGGANGACGCGGTCTTCATGTTCTTGATGT 300
DB      619  TGTGGCAATGACAGATGCTGTGGCAGCTCAGGAGCGCGGTGTCTCAATGTTCTTGATGT 678
QY      301  GTCCCCTGCGAATAAGCTCCGGTGGTTCCACTGTGTGATCCGATCTCGCCCAACATA 360
DB      679  GTCCCCTGTGAGAGGTACGATTATAGGACCTTCTGTTGAGACGCGGTCTCGCCCAACGTG 738
QY      361  GCCGTGACCAAACTGTGTGCTCTCAACAAGGAGCTGGCGGACCGCATTTGATGSCGTCGTG 420
DB      739  GCTGTGACCGCAACCTGTGTGCTCTCACTAGAGGTCTGGCGGCTCACATTTGATPACATCGTG 798
QY      421  ATGTTCGGCAACCTCTCTCTGACCCTGTAGCTGGAGAGATGTGTGCGGCGCAGTGTATGATA 480
DB      799  ATGTTCGGCAACCTCTCTCTGACCCTGTATACATAGGGAGACTATGCGGCGCTGTATGATA 858
QY      481  GCTGCAACAGGCTTTTCATGCTGAGCAACCGAAGCGCCATTACTTGTCTCAGGAATGCAATTGG 540
DB      859  GCAGGCAAGATGGCGGTGTCTCAACCGCAATATCATCTTTTGTGTCAAGAAATGCAACTGC 918
QY      541  TCATATATCCAGGCGCAATTAACAGGTATGCGATGG 577
DB      919  TCATATATCCAGGCGCAATTAACAGGATCGAATGG 955

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Patent No. 6762024
 GENERAL INFORMATION:
 APPLICANT: Immunogenetics N.V.
 TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 FILE REFERENCE: 35
 CURRENT APPLICATION NUMBER: US/09/878,281A
 CURRENT FILING DATE: 2001-06-12
 NUMBER OF SEQ ID NOS: 284
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 143
 LENGTH: 957
 TYPE: DNA
 ORGANISM: hepatitis C virus
 US-08-836-075A-143

Query Match 63.4%; Score 366.8; DB 3; Length 957;
 Best Local Similarity 76.5%; Pred. No. 1.5e-96;
 Matches 443; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

1 ACGTGGGNNNTGCGACCTCATGAGGGAATGCGGCTGTCGCGCGCGCGGCGGCGG 60
 379 ACGTGGGCTTTGCGACCTCATGAGGGAATGCGGCTGTCGCGCGCGCGCGGCGGCGG 438
 61 GTNCCAGAGGCGCTCGGCAATGAGCGGCTCGTGGAGAGCGGATTAATTATGNAACA 120
 439 GTCCCAAGAGCTCTCGGCAATGAGCGGCTCGTGGAGAGCGGATTAATTATGNAACA 498
 121 GGGAACTCCCTGCTGCT 180
 499 GGGAACTCCCTGCTGCT 558
 181 GTGCTGCT 240
 559 GTGCTGCT 618
 241 TGCTCCAAACACAGCATGATGAGCAATGAGGAGCGGCTCTCAATGTTCTGATGT 300
 619 TGCCAGAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 678
 301 GTCCCTGCGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 679 GTCCCTGCGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 738
 361 GCGGTGAGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 739 GCTGTGAGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 798
 421 ATGTCCGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
 799 GCATCCGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 858
 481 GCTGCAAGGCTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
 859 GCTTCTCAAGCTTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 918
 541 TCCATATACCAAGGCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 579
 919 TCCATATACCAAGGCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 957

RESULT 4

US-08-836-075A-75
 Sequence 75, Application US/08836075A
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Microsoft word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 75:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1195 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-75

Query Match 60.8%; Score 351.8; DB 3; Length 1195;
 Best Local Similarity 74.1%; Pred. No. 3.8e-92;
 Matches 429; Conservative 3; Mismatches 147; Indels 0; Gaps 0;

1 ACGTGGGNNNTGCGACCTCATGAGGGAATGCGGCTGTCGCGCGCGCGGCGGCGG 60
 617 ACGTGGGCTTTGCCACCTCATGAGGGAATGCGGCTGTCGCGCGCGCGGCGGCGGCGG 676
 61 GTNCCAGAGGCGCTCGGCAATGAGCGGCTCGTGGAGAGCGGATTAATTATGNAACA 120
 677 GTCCCAAGAGCTCTCGGCAATGAGCGGCTCGTGGAGAGCGGATTAATTATGNAACA 736
 121 GGGAACTCCCTGCTGCT 180
 737 GGGAACTCCCTGCTGCT 796
 181 GTGCTGCT 240
 797 GNECCAGTTCT 856
 241 TGCTCCAAACACAGCATGATGAGCAATGAGGAGCGGCTCTCAATGTTCTGATGT 300
 857 TGTTCAACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 916
 301 GTCCCTGCGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 917 GTCCCTGCGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 976
 361 GCGGTGAGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 977 KNGTGAAGCGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1036
 421 ATGTCCGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
 1037 GCGTCCGCAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1096

Qy 481 GCTGCACAGGCTTTCATGTCGACCGAAGCGCATTAATTGTCGGAATGCAATTGC 540
Db 1097 GCTGCCAAGTGTGATGTCGTCGCCGAGCATCATCTTTGTCAGAGCTGTACTGT 1156
Qy 541 TCCATATATACCGAGCCACATTACAGTTCATGTCATGGCG 579
Db 1157 TCCATCTAACCGGGCCACATTAACGGGGCTGTATGTTG 1195

RESULT 5
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-1

Query Match 57.0%; Score 330; DB 2; Length 9589;
Best Local Similarity 55.4%; Pred. No. 2e-85;
Matches 321; Conservative 99; Mismatches 159; Indels 0; Gaps 0;

Qy 1 ACGTGGCGGNTTGGCGGACTCATGGGTAATNCCGTTGTCGGCGCCCGTGGCGGG 60
Db 719 ACGGCGCGCTUUGCGGACUAGGGAACAUCCUUGCGAGGCGCCCGCTUGCGGCG 778
Qy 61 GTNGCGAGGCGCTCGCGGATGCGGTCGCGGTCCTGAGAGACGGGATAATTATGNAACA 120
Db 779 GUCCGCAAGCUCUCGCGAGGCGUGAGAGUCCUGGAGAGCGGGGUAUUUGCAACA 838
Qy 121 GGAACCTCCCTGTTGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 180

Db 839 GGAACAUAACCCGAGUUCUCUUUUCAUUCUUCUGCGCCGCGUCUCUACUACC 898
Qy 181 GTGCTGTCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
Db 899 ACCCGGUCUCG 958
Qy 241 TGTCCGAACAACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 300
Db 959 UGCACCAUAUAUAGCAUUAUCUGGCAACUCAGCGUCUGUCUCCUCCAGUCCCGGGUGC 1018
Qy 301 GTCCCTCGGGAATAGCTCCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 360
Db 1019 GUCCCGGCGAAGAAAGGGAUAUACUUCGUGGCGGAAUCCGUGCUACCGGAUUGUG 1078
Qy 361 GCGGTAGCAAACTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 420
Db 1079 GCGGAGAGACG 1138
Qy 421 ATGTCCGCAACCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 480
Db 1139 AUGUCGCGCAGCUCUGCUCGCGCUCUUAACGUGGGGACCCUGCGGUGGUGAUCU 1198
Qy 481 GCTGCACAGGCTTTCATGTCGACCGAAGCGCATTAATTGTCGGAATGCAATTGC 540
Db 1199 GCAAGCCAGAUUCUUAUUGUCUGCGCACAGCACACUUGUUGGAAAGCUGCAUUGC 1258
Qy 541 TCCATATATACCGAGCCACATTACAGTTCATGTCATGGCG 579
Db 1259 UCCAUUACCCUGAUACUACUGGACCGGACCGGAGUGCG 1297

RESULT 6
US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:

```

; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-2

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```

Query Match      57.0%; Score 330; DB 2; Length 9589;
Best Local Similarity 72.5%; Pred. No. 2e-85;
Matches 420; Conservative 0; Mismatches 159; Indels 0; Gaps 0;

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QY 1 ACGTGGCGGNTTTCGCGAAGCTTATGCGGATACATCCGCTTGTGCGCGCCCGGTTGGCGG 60
   |||||
DB 719 ACGTGGCGGCTTTCGCGAAGCTTATGCGGATACATCCGCTTGTGCGCGCCCGGTTGGCGG 778
   |||||
QY 61 GTNCCGAGGCGCTTCGCGAATGCGGCTGCGGCTTCTGAGAGACGGGATTAATTGNAACA 120
   |||||
DB 779 GTCCGACAGAGCTTCGCGAATGCGGCTGCGGCTTCTGAGAGACGGGATTAATTGNAACA 838
   |||||
QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGCTCTTCTGTCTGTCTGTCACC 180
   |||||
DB 839 GGAACCTTACCGGCTGCTCTTTTCTATCTTCTGTTGCTCTTCTGTCTGTCTGTCACC 898
   |||||
QY 181 GTGCTGTCTCTGCTGCTTGAAGTCAAAATACAGTACAGGCTTATATGAGCAACCAAGAC 240
   |||||
DB 899 ACCCGGCTCTCGCTGCGAAGTGAAGACATCAATACCGGCTTATATGAGCAACCAAGAC 958
   |||||
QY 241 TGCTTCAACAACAGACATGATGAGCAATGAGACCGGCTTCTGATGCTTCTGATGT 300
   |||||
DB 959 TGCAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1018
   |||||
QY 301 GTCCCGTCCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
   |||||
DB 1019 GTCCCGTCCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1078
   |||||
QY 361 GCCGTGAGCAAACTGTGTCTCTCAACAAAGGAGTGGCGGACGATGATGATGATGATGATGATGAT 420
   |||||
DB 1079 GCCGTGAGCAAACTGTGTCTCTCAACAAAGGAGTGGCGGACGATGATGATGATGATGATGATGAT 1138
   |||||
QY 421 ATGTCCGCAACCTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
   |||||
DB 1139 ATGTCCGCAACCTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1198
   |||||
QY 481 GCTGCAAGAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
   |||||
DB 1199 GCAAGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1258
   |||||
QY 541 TCCATATACCGGACCAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 579
   |||||
DB 1259 TCCATATACCGGACCAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1297
   |||||

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RESULT 7
US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
;
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESS: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6

```

```

Query Match      57.0%; Score 329.8; DB 2; Length 9511;
Best Local Similarity 54.4%; Pred. No. 2.3e-85;
Matches 313; Conservative 108; Mismatches 157; Indels 0; Gaps 0;

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QY 1 ACGTGGCGGNTTTCGCGAAGCTTATGCGGATACATCCGCTTGTGCGCGCCCGGTTGGCGG 60
   |||||
DB 720 ACGTGGCGGCTTTCGCGAAGCTTATGCGGATACATCCGCTTGTGCGCGCCCGGTTGGCGG 779
   |||||
QY 61 GTNCCGAGGCGCTTCGCGAATGCGGCTGCGGCTTCTGAGAGACGGGATTAATTGNAACA 120
   |||||
DB 780 GTNCCGAGGCGCTTCGCGAATGCGGCTGCGGCTTCTGAGAGACGGGATTAATTGNAACA 839
   |||||
QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGCTCTTCTGTCTGTCTGTCACC 180
   |||||
DB 840 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGCTCTTCTGTCTGTCTGTCACC 899
   |||||
QY 181 GTGCTGTCTCTGCTGCTTGAAGTCAAAATACAGTACAGGCTTATATGAGCAACCAAGAC 240
   |||||
DB 900 GTGCTGTCTCTGCTGCTTGAAGTCAAAATACAGTACAGGCTTATATGAGCAACCAAGAC 959
   |||||
QY 241 TGCTTCAACAACAGACATGATGAGCAATGAGACCGGCTTCTGATGCTTCTGATGT 300
   |||||
DB 960 TGCTTCAACAACAGACATGATGAGCAATGAGACCGGCTTCTGATGCTTCTGATGT 1019
   |||||
QY 301 GTCCCGTCCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
   |||||
DB 1020 GTCCCGTCCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
   |||||
QY 361 GCCGTGAGCAAACTGTGTCTCTCAACAAAGGAGTGGCGGACGATGATGATGATGATGATGATGAT 420
   |||||
DB 1080 GCCGTGAGCAAACTGTGTCTCTCAACAAAGGAGTGGCGGACGATGATGATGATGATGATGATGAT 1139
   |||||
QY 421 ATGTCCGCAACCTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 480
   |||||
DB 1140 ATGTCCGCAACCTGTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1199
   |||||
QY 481 GCTGCAAGAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
   |||||
DB 1200 GCTGCAAGAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1259
   |||||
QY 541 TCCATATACCGGACCAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 578
   |||||
DB 1260 TCCATATACCGGACCAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1297
   |||||

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RESULT 8
US-07-925-695-7
; Sequence 7, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-7
Query Match 57.0%; Score 329.8; DB 2; Length 9511;
Best Local Similarity 71.8%; Pred. No. 2.3e-85;
Matches 415; Conservative 6; Mismatches 157; Indels 0; Gaps 0;
QY 1 ACGTGGCGGNTGCGGACCTCATGCGGATACATNCCGGTTCGCGGCCCGCGGTGGCGGG 60
DB 720 ACGTGTGGTTTGGCGACCTCATGCGGATACATNCCGGTTCGCGGCCCGCGGTGGCGGG 779
QY 61 GTNCGCAGGGCCCTTGGCGATGCGCTGGCGGCTCTGGAGAGCGGATTAATTAGNACA 120
DB 780 GTGCGCAAGCTCTTGGCACAAGTGTGAGGGCTCTGGAGAGCGGATTAATTAGCACA 839
QY 121 GGGAACTCCCTGGTGGCTTCTTCTATCTTCTGTTGGCTCTTCTGCTTGTGTCACC 180
DB 840 GGGAACTTACCGGTTGCTCTTCTTCTATCTTCTTGTGCTTCTTCTGCTGCTCACA 899
QY 181 GTGCTGTCTCTGNCGTGAGGTCAAAAATACAGTCAAGCCCTATATGCAACCAACGAC 240
DB 900 RTGCCAGTGTCTGCAAGTGAAGTCAAGAACATYAGTTCTAGCTACTAGCCACTATATGAT 959
QY 241 TGCTTCAACCAACAGCATGATGATGCAATTGGAGCGGGTCTTCAATGTTCTTGATGT 300
DB 960 TGCTTCAACCAACAGCATGATGATGCAATTGGAGCGGGTCTTCAATGTTCTTGATGT 1019

QY 301 GTCCCTGCGAGATAGCTCCGTCGGTTCACCTGTTGAGTCCGATTCGCCCAACATA 360
DB 1020 GTCCCATGTGAGAAATGATAAGGACACCTTGCTGTGATACAGTAACCCRAAGTG 1079
QY 361 GCCGTGAGCAAACTGTGCTCTTACCAAGGACTGCGGCGACGATGATGCGCTG 420
DB 1080 GCTGTGAAACACCGCGGTGGCTCACTCGTAGCCTGGAACACAGCTGACATGATGTA 1139
QY 421 ATGTCGCCACCTCTGCTCTGCTGTAAGTGGAGATGTGTCGGCGCAGTATGATA 480
DB 1140 ATGCACTTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1199
QY 481 GCTGCAAGGCTTTCATGTCGACCAAGCGCCATTACTTCTGTCAGGAATGCAATTGC 540
DB 1200 CTATGCAAGGCTTTCATGTCGATCATCCCAACAGCCCAACATTCACCCCAAGTCAACTGT 1259
QY 541 TCATATATCCAGGACCACTTACAGTTCATGCGATGCG 578
DB 1260 TCATATATCCAGGACCACTTACAGTTCATGCGATGCG 1297
RESULT 9
US-08-836-075A-19
; Sequence 19, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-19
Query Match 49.8%; Score 288.4; DB 3; Length 447;
Best Local Similarity 77.6%; Pred. No. 6.6e-74;

RESULT 10
US-08-836-075A-23
Sequence 23. Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

0;

GGTGG	159
GGCTG	60
TTGAG	219
CCGCG	279
CTGGG	339
CTGGG	240
CGCGG	399
GGCGG	300
AGATG	459
CGGAC	360
TTTAC	519
CATGC	420

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LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; parental sequence
OTHER INFORMATION: without cell culture-adaptive mutations
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-1
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Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;

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QY 1 ACGTGGCGGNTTGGCCGACCTCATGGGGTACATNCCCGTTCGCGCCCCCGGCGGGG 60
DB 2191 ACGTGGCGGCTTCGCGCATCTCATGGGGTACATTCGCGTCCGCGCCCCCGGCGGGG 2250
QY 61 GTNCCGAGGCGCCCTGCGGNATGGCGTGGGGTCTCTGAGAGACGGGATTAATTAGNAACA 120
DB 2251 GCTCCAGAGGCGCCGCGGCATGGCGGTCCGGGTCTCGAGAGACGGCGTAACTATGCAACA 2310
QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGGCTCTTCTGTTGATGAC 180
DB 2311 GGGATCTGCCCCGCTGCTCTCTTTTCTATCTTCTGTTGGCTCTCTGTTGAC 2370
QY 181 GTGCTGTCTGTGNCGTGTAGAGTCAAAAATACAGTCAAGGCTTATGAGCAACAGAC 240
DB 2371 ATCCAGGCTTCGCTTATGAGTGGCAAGTATCCGAGTGTACCATGTCAAGACAGAC 2430
QY 241 TGTCTCAACAACAGATGTATGCAATTTGANGACGGGTCTTCATGTTCTGATGT 300
DB 2431 TGTCTCAACAGCAAGATGTATGAGGACAGCATGATATGCAATATCCCGGGTGC 2490
QY 301 GTCCCTCGAGAAATAGCTCGGTGCTTCCACTGTTGATCCGATCCGCCAACAATA 360
DB 2491 GTGCTCTGCTTCGGGAAACAATCTCTCCGCTGCTGGTGAAGCTTACTCCACGCTC 2550
QY 361 GCCGTGAGCAAACTGTGCTCTCAACAAGGAACTGCGGACCGCATTTGATCCGCTG 420
DB 2551 GCGGCAAGAAAGCTAGAGGTCCCACTACGACATACAGCCCATGTCGATTTGCTGTT 2610
QY 421 ATGTCCGCAACCTTGTGCTGCTGCTGCTGAGTGGAGATGTGTGGGGCATGATGATA 480
DB 2611 GGGGCGGTGTCTGTCTGCTGCTATGTAGTGGAGATCTGTGGGATGTGTTTCTCTC 2670
QY 481 GCTGCAAGAGCTTTCATGTGAGCAACGAGCCCTTACTTGTCCAGAAATGCAATTC 540
DB 2671 GTCCGCGAGCTTTCATCTTCTGCTGCTGCGCGGACAGAGATGAGAACTGCAATTC 2730
QY 541 TCCATATACCAAGGCGACATTTACAGTATGATGATGCGATGCG 578
DB 2731 TCAATATATCCCGGACAGTACAGTACCGTATGCG 2768
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RESULT 12
US-09-539-601-19
Sequence 19, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Barteneschlager, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C

```
CURRENT FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
EARLIER FILING DATE: 1999-04-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 19
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct I389/Core-3'/9-13F
FEATURE:
NAME/KEY: CDS
LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell
OTHER INFORMATION: culture-adaptive mutations from clone 9-13F
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846)..(11076)
US-09-539-601-19
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Query Match 43.8%; Score 253.8; DB 3; Length 11076;
Best Local Similarity 64.4%; Pred. No. 2.9e-63;
Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;

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QY 1 ACGTGGCGGNTTGGCCGACCTCATGGGGTACATNCCCGTTCGCGCCCCCGGCGGGG 60
DB 2191 ACGTGGCGGCTTCGCGCATCTCATGGGGTACATTCGCGTCCGCGCCCCCGGCGGGG 2250
QY 61 GTNCCGAGGCGCCCTGCGGNATGGCGTGGGGTCTCTGAGAGACGGGATTAATTAGNAACA 120
DB 2251 GCTCCAGAGGCGCCCTGCGGNATGGCGTGGGGTCTCTGAGAGACGGGATTAATTAGNAACA 2310
QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGGCTCTTCTGTTGATGAC 180
DB 2311 GGGATCTGCCCCGCTGCTCTCTTTTCTATCTTCTGTTGGCTCTTCTGTTGAC 2370
QY 181 GTGCTGTCTGTGNCGTGTAGAGTCAAAAATACAGTCAAGGCTTATGAGCAACAGAC 240
DB 2371 ATCCAGGCTTCGCTTATGAGTGGCAAGTATCCGAGTGTACCATGTCAAGACAGAC 2430
QY 241 TGTCTCAACAACAGATGTATGCAATTTGANGACGGGTCTTCATGTTCTGATGT 300
DB 2431 TGTCTCAACAGCAAGATGTATGAGGACGGGACATGATATGCAATATCCCGGGTGC 2490
QY 301 GTCCCTCGAGAAATAGCTCGGTGCTTCCACTGTTGATCCGATTCGCCAACAATA 360
DB 2491 GTGCTCTGCTTCGGGAAACAATCTCTCCGCTGCTGGGTGATGCTCCACGCTC 2550
QY 361 GCCGTGAGCAAACTGTGCTCTCAACAAGGAACTGCGGACCGCATTTGATCCGCTG 420
DB 2551 GCGGCAAGAAAGCTAGAGGTCCCACTACGACATACAGCCCATGTCGATTTGCTGTT 2610
QY 421 ATGTCCGCAACCTTGTGCTGCTGCTGAGTGGAGATGTGTGGGGCATGATGATA 480
DB 2611 GGGGCGGTGTCTGTCTGCTGCTATGTAGTGGAGATCTGTGGGATGTGTTTCTCTC 2670
QY 481 GCTGCAAGAGCTTTCATGTGAGCAACGAGCCCTTACTTGTCCAGAAATGCAATTC 540
DB 2671 GTCCGCGAGCTTTCATCTTCTGCTGCTGCGCGGACAGAGATGAGAACTGCAATTC 2730
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QY 541 TCATATACCGACGACATTACAGTTCATGCGATGCG 578
 Db 2731 TCAATATATCCCGGCGACGTCAGAGTCAACGTTATGCG 2768

RESULT 13

US-09-539-601-25
 ; Sequence 25, Application US/09539601C
 ; Patent No. 6630343
 ; GENERAL INFORMATION:
 ; APPLICANT: Bartenschlager, Ralf FW
 ; TITLE OF INVENTION: Hepatitis C virus Cell culture system
 ; FILE REFERENCE: all sequences
 ; CURRENT APPLICATION NUMBER: US/09/539,601C
 ; CURRENT FILING DATE: 2001-08-30
 ; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
 ; EARLIER FILING DATE: 1999-04-03
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 25
 ; LENGTH: 11076
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 ; FEATURE:
 ; LOCATION: (1)..(341)
 ; OTHER INFORMATION: construct I389/Core-3'/5.1
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (342)..(1193)
 ; OTHER INFORMATION: hepatitis C virus core - neomycin
 ; OTHER INFORMATION: phosphotransferase fusion protein
 ; FEATURE:
 ; NAME/KEY: RBS
 ; LOCATION: (1202)..(1812)
 ; OTHER INFORMATION: internal ribosome entry site from
 ; OTHER INFORMATION: encephalomyocarditis virus
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1813)..(10845)
 ; OTHER INFORMATION: hepatitis C virus polyprotein from core to
 ; OTHER INFORMATION: nonstructural protein NS5B; carries cell
 ; OTHER INFORMATION: culture-adaptive mutations of clone 5.1
 ; FEATURE:
 ; NAME/KEY: 3'UTR
 ; LOCATION: (10846)..(11076)
 ; US-09-539-601-25

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
 Best Local Similarity 64.4%; Pred. No. 2.9e-63;
 Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;
 QY 1 ACGTGGCGGNTNTGCCGACCTTCATGAGGTACATNCCCGTTCGCGCGCCCGGTGGCGG 60
 Db 2191 ACGTGGCGGCTTCGCGGATTCATGAGGTACATNCCCGTTCGCGCGCCCGGTGGCGG 2250
 QY 61 GTNCCGAGGCGCCCTTCGCGGATTCGCGGCTTCGCGGAGCGGATTAATTATGNAACA 120
 Db 2251 GCTGCCAGGCGCCCTTCGCGGATTCGCGGCTTCGCGGAGCGGATTAATTATGNAACA 2310
 QY 121 GGAACCTCCCTGGTGTCTCTTTTCTATCTTCTGTTGCTCTTCTGTTGTCACG 180
 Db 2311 GGAATCTGCCGCTTCCTTTCTATCTTCTTGGCTTGTGCTGCTGTTGAC 2370
 QY 181 GTGCTGTCTCTGCGTTCGAGGTACAAATAACAGTCAGGCTTATGGAACCAACGAC 240
 Db 2271 ATCCAGGCTTCGCTTATGAGGTGCGAAGTATCCGAGGTATCAATGTCACGACGAC 2430
 QY 241 TGTCTTCAACACAGCATGTATGGAATTGAGGAGCGGCTTCATGTTCTGAGATGT 300
 Db 2431 TGTCTTCAACACAGCATGTATGAGGAGCGGATGATCATATCAATCCCGGGGTGC 2490

QY 301 GTCCCTTCGAGATATAGCTCCGGTTCGCTTTCATGATCCCGATTCGCCCAACATA 360
 Db 2491 GTGCCCTTCGCTTCGAGGAGATCACTCCCGTGGCTTACGCTCATCCACAGCTC 2550
 QY 361 GCCGTGACCAAACTGTGCTCTTCACCAAGGAACTGCGGACAGCATATGCGCTGTG 420
 Db 2551 GCGGCCAGGAACCTGACCTCCCACTACAGCATGACGCGCATGTCGATTTGCTGTT 2610
 QY 421 ATGTCGCGCACCTTCGCTTCGCTGCTGATGAGGAGATGTCGCGGACGATGATA 480
 Db 2611 GGGCGGCTGCTCTTCGCTTCGCTGCTGATGAGGAGATGTCGCGGATGCTTCTC 2670
 QY 481 GTCGACAGGCTTTCATGTCGACCGAAGCGCATTCCTGTCGAGATGCAATTGC 540
 Db 2671 GTGCCGAGCTTTCACCTTCGCGCTCGCGGACAGACATGACGATCGAATTGC 2730
 QY 541 TCATATACCGACGACATTACAGTTCATGCGATGCG 578
 Db 2731 TCAATATATCCCGGCGACGTCAGAGTCAACGTTATGCG 2768

RESULT 14

US-09-539-601-31
 ; Sequence 31, Application US/09539601C
 ; Patent No. 6630343
 ; GENERAL INFORMATION:
 ; APPLICANT: Bartenschlager, Ralf FW
 ; TITLE OF INVENTION: Hepatitis C virus Cell Culture System
 ; FILE REFERENCE: all sequences
 ; CURRENT APPLICATION NUMBER: US/09/539,601C
 ; CURRENT FILING DATE: 2001-08-30
 ; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
 ; EARLIER FILING DATE: 1999-04-03
 ; NUMBER OF SEQ ID NOS: 51
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 31
 ; LENGTH: 11076
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 ; FEATURE:
 ; NAME/KEY: 5'UTR
 ; LOCATION: (1)..(341)
 ; OTHER INFORMATION: construct I389/Core-3'/19
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (342)..(1193)
 ; OTHER INFORMATION: hepatitis C virus core - neomycin
 ; OTHER INFORMATION: phosphotransferase fusion protein
 ; FEATURE:
 ; NAME/KEY: RBS
 ; LOCATION: (1202)..(1812)
 ; OTHER INFORMATION: internal ribosome entry site from
 ; OTHER INFORMATION: encephalomyocarditis virus
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1813)..(10845)
 ; OTHER INFORMATION: hepatitis C virus polyprotein from core to
 ; OTHER INFORMATION: nonstructural protein NS5B; carries cell culture
 ; OTHER INFORMATION: adaptive mutations from clone no. 19
 ; FEATURE:
 ; NAME/KEY: 3'UTR
 ; LOCATION: (10846)..(11076)
 ; US-09-539-601-31

Query Match 43.8%; Score 253.8; DB 3; Length 11076;
 Best Local Similarity 64.4%; Pred. No. 2.9e-63;
 Matches 372; Conservative 0; Mismatches 206; Indels 0; Gaps 0;
 QY 1 ACGTGGCGGNTNTGCCGACCTTCATGAGGTACATNCCCGTTCGCGCGCCCGGTGGCGG 60
 Db 2191 ACGTGGCGGCTTCGCGGATTCATGAGGTACATNCCCGTTCGCGCGCCCGGTGGCGG 2250
 QY 61 GTNCCGAGGCGCCCTTCGCGGATTCGCGGCTTCGCGGAGCGGATTAATTATGNAACA 120

Db	2251	GCTGCCAGGGCCCTGGCCGCAATGGCTCCGGGTTCTGGAGGACGGGCTAACTATGCAACA	2310
QY	121	GGGAACCTCCCTGGTGTGCTCCTTTTCTATCTTCTNGTTGGCTTCTGTCTTGTGCAC	180
Db	2311	GGGAATCTGCCCGGTTGTCTCTTTTCTATCTTCTCTTTGGCTTGGCTGTCTCGTTTGACC	2370
QY	181	GTGCTGTCTCTGNGCTTGAAGGTCAAAATACAGTCAGGCTTATATGGACCAACAGAC	240
Db	2371	ATCCAGCTTCCGCTTATGAAGTGGCGAACGTAATCCGAGTGTACATGTACAGAACAC	2430
QY	241	TGCTTCAACAACAGCATGTATATGCAATTTGGNGACGGCGTGCTTCATGTTCTTGAGT	300
Db	2431	TGCTTCAACGCAAGATGTGTATAGAGGACAGGACATGATCATACCCCGGGTGC	2490
QY	301	GTCCCTGCGAGAATAGCTCCGGTCCGTTCCATGTTGATCCGATTCGCCCAATA	360
Db	2491	GTGCCCTCGTTCCGGGAAACAACATCTCCGCTGGTATAGCGTCACTCCACGCTC	2550
QY	361	GCCGTGACCAACCTGTGTCTCTACCAAGGACCTGGGGACGAGATTGAATGCGTGGT	420
Db	2551	GCGGCAAGAACGTAAGGTGCCCACTACAGCAATACACGCAATGTGATTTGCTGTT	2610
QY	421	ATGTCCGCAACCTGTGTCTGACCCTGTATCGTGGAGATGTGTGGCGCATGTATGATA	480
Db	2611	GGGGGGGTGTCTTGTCTCTCCGTATGTATCGTGGAGATCTCTGGGATCTGTTTCTC	2670
QY	481	GCTGCAAGGCTTTTATGTGTGCACCGAAGCGCCATTACTTGTGTCCAGAAATGCATTTGC	540
Db	2671	GTCCGCCAGCTGTTTCACTTCCGCTCGCCGCGACAGAACGTATCAAGACGTCAATTGC	2730
QY	541	TTCATATACCAAGGCACATTACAGTATATGCAATGCG	578
Db	2731	TCAATATATCCGGCCAGTACAGTACAGTATCCGATATGCG	2768

RESULT 15
US-08-836

US-08-836-075A-47

; Sequence 47, Application US/08836075A

; Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES AND THEIR USE AS PROTECTANTS

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

NUMBER OF SENTENCES.	207	AGENCY	TITLE OF INVENTION:
1			
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NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLO WHITE & DIBKEE

STREET: P O BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

```
SOFTWARE: Microsoft Word 6.0 / ASCII text output
```

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 OCT

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 948/0166.5
FILING DATE: 31 Oct 1994

```

; FILLING DATE: 21 DEC
;
; BPTOP APPLICATION DATA:

```

APPLICATION DATA: EP 95870076 7

FILED DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

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?      REGISTRATION NUMBER: 29,775
?      REFERENCE/DOCKET NUMBER: INNS:004
?      INFORMATION FOR SEQ ID NO: 47:
?      SEQUENCE CHARACTERISTICS:
?          LENGTH: 957 base pairs
?          TYPE: nucleic acid
?          STRANDEDNESS: single
?          TOPOLOGY: linear
?      MOLECULE TYPE: cdna
?      HYPOTHEetical: NO
?      ANTI-SENSE: NO
?      US-08-836-075A-47

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| Query Match | Best Local Match | Similarity | 42.7%; | Score 247.4; | DB 3.4; | Length 957; |
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| Matches | 368; | Conservative | 0; | Mismatches | 211; | Indels |
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| Dp | 379 | ACTTGCGGCTTC | CGCCGACCTCATGAGTA | CAATCCCTGTGCTTGGCGCCCCCTTGGAGGC | 438 | |
| Qy | 61 | GTNCCCGAGGCGCC | TCCGGCATGGCGTGGCGGT | CCTGGAGGACGGGATTAATATGNAACA | 120 | |
| Dp | 439 | GTTCGCGGCGAACT | CGNACATGGGTACGGGCGCATCAGAGCGGGATTAACATATGCAACA | | 498 | |
| Qy | 121 | GGGAACCTCCCTGG | GTGTCTCCTTTTCTATCTTNGTGTGAGCTCTTCTGTGTGTGCACC | | 180 | |
| Dp | 499 | GGGAAATCTCTCG | TGTGTGTCTTTTCTCTATCTTCMCTTGGACATCTCTCGTGGCTGACC | | 558 | |
| Qy | 181 | GTGCTGTCTCTG | CGTTGAGGTCAAAAATTCAGATCAGGCGCTTATATGGAACCAACGAC | | 240 | |
| Dp | 559 | ACGGCTGCTCCGAC | CTAAACTATGCTAAACAGTCTGGGCTGTATCATCTAACATATAC | | 618 | |
| Qy | 241 | TGCTCCAAACA | CAGCATCGTATGGCAATGGGACGGCGGTTCATGTCTCTGAGATGT | | 300 | |
| Dp | 619 | TGCCCAATAGAC | ATTTGTATGAGGCGAATGGCATGATCTCGCATCTCCCGGTTGC | | 678 | |
| Qy | 301 | GTCCCTTGCGA | AGATAGCTCCGATTCACATGTTGGAATCCGATCTCGCCCAACATA | | 360 | |
| Dp | 679 | GTCCCTGCGGAG | AGACCGGCAACTGACCAAGTGTGGCTGTGGGCTTCCCGACATTG | | 738 | |
| Qy | 361 | GCCGTGAGCA | AACTGGTGTCTCTACCAAGGAACTGGGGGACAGCATTTGATGGCGTGGT | | 420 | |
| Dp | 739 | GCGGTGAGAA | TGCTGGGTGCATCAGGGGATGTCCGAGACAGTGAACCTCTTGGTG | | 798 | |
| Qy | 421 | ATGTCGCGAC | CCCTCTGTCTCGCCCTGTACTGAGGAATGTGTGGCGCGCATGATGATA | | 480 | |
| Dp | 799 | GGTGCTGTGG | TTCTGTCTGTGCATATGACTGGGGCACTTAATGGGTGGGCTCTTCTC | | 858 | |
| Qy | 481 | GCTGCAACAG | CTTTCATGTGGCAACCGAAGCGCAATTACTTTCGTACAGGAATGCATTGC | | 540 | |
| Dp | 859 | GTTCGGGAC | GTTCACAGTTCAGACCCGAGATGTATGATCGCCACGACCTGCMACTGT | | 918 | |
| Qy | 541 | TCCATATAC | CAGGCAATTAACGATCATGGCATGGG | | 579 | |
| Dp | 919 | TCCATATAT | CAGGCAATCATCTGGGACCGAATGGCG | | 957 | |

Search completed: January 11, 2006, 04:37:45
Job time : 145.893 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 237.834 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-17
Perfect score: 957
Sequence: 1 atgagcacatcctaacc.....tcacaggacatcgatcgm 957

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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2: /cgm2_6/ptodata/1/ina/5 COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 954.6 | 99.7 | 957 | 3 | US-08-836-075A-17 |
| 2 | 729 | 76.2 | 957 | 3 | US-09-878-281A-143 |
| 3 | 691.8 | 72.3 | 1195 | 3 | US-08-836-075A-75 |
| 4 | 674.6 | 70.5 | 9589 | 2 | US-07-925-695-1 |
| 5 | 674.6 | 70.5 | 9589 | 2 | US-07-925-695-2 |
| 6 | 640.6 | 66.9 | 9511 | 2 | US-07-925-695-6 |
| 7 | 640.6 | 66.9 | 9511 | 2 | US-07-925-695-7 |
| 8 | 519.4 | 54.3 | 9599 | 3 | US-09-014-416-4 |
| 9 | 519.4 | 54.3 | 9599 | 3 | US-09-014-416-6 |
| 10 | 517.8 | 54.1 | 9365 | 3 | US-09-827-688-7 |
| 11 | 516.2 | 53.9 | 12980 | 3 | US-08-811-566-5 |
| 12 | 516.2 | 53.9 | 12980 | 3 | US-09-034-756-5 |
| 13 | 514.6 | 53.8 | 9275 | 3 | US-10-259-275-19 |
| 14 | 514.6 | 53.8 | 9416 | 3 | US-08-823-895A-26 |
| 15 | 514.6 | 53.8 | 9416 | 3 | US-10-104-966-13 |
| 16 | 514.6 | 53.8 | 9416 | 3 | US-09-929-955-13 |
| 17 | 514.6 | 53.8 | 9599 | 3 | US-09-014-416-2 |
| 18 | 514.6 | 53.8 | 9646 | 3 | US-08-811-566-1 |
| 19 | 514.6 | 53.8 | 9646 | 3 | US-09-034-756-1 |
| 20 | 514.6 | 53.8 | 10803 | 3 | US-10-259-275-17 |
| 21 | 514.6 | 53.8 | 11076 | 3 | US-08-539-601-1 |
| 22 | 514.6 | 53.8 | 11076 | 3 | US-09-539-601-19 |
| 23 | 514.6 | 53.8 | 11076 | 3 | US-09-539-601-25 |
| 24 | 514.6 | 53.8 | 11076 | 3 | US-09-539-601-31 |

| | | | | | | |
|----|-------|------|------|---|-------------------|-------------------|
| 25 | 513.6 | 53.7 | 957 | 3 | US-08-836-075A-11 | Sequence 11, Appl |
| 26 | 513. | 53.6 | 1037 | 2 | US-08-462-195-1 | Sequence 1, Appl1 |
| 27 | 513 | 53.6 | 1037 | 2 | US-08-636-883-1 | Sequence 1, Appl1 |
| 28 | 513 | 53.6 | 1037 | 3 | US-09-127-829-1 | Sequence 1, Appl1 |
| 29 | 513 | 53.6 | 2116 | 3 | US-08-191-160-21 | Sequence 21, Appl |
| 30 | 513 | 53.6 | 9401 | 2 | US-08-432-693-1 | Sequence 1, Appl1 |
| 31 | 513 | 53.6 | 9416 | 3 | US-08-811-566-19 | Sequence 19, Appl |
| 32 | 513 | 53.6 | 9416 | 3 | US-09-034-756-19 | Sequence 19, Appl |
| 33 | 511.8 | 53.5 | 9401 | 6 | PCT-US91-02225-9 | Sequence 9, Appl1 |
| 34 | 510.6 | 53.4 | 957 | 3 | US-08-836-075A-41 | Sequence 41, Appl |
| 35 | 510.2 | 53.3 | 9379 | 3 | US-08-444-818-176 | Sequence 176, App |
| 36 | 509.8 | 53.3 | 1167 | 2 | US-08-324-977-9 | Sequence 9, Appl1 |
| 37 | 509.8 | 53.3 | 1167 | 2 | US-08-384-616-9 | Sequence 9, Appl1 |
| 38 | 509.8 | 53.3 | 1167 | 2 | US-08-904-686A-9 | Sequence 9, Appl1 |
| 39 | 509.8 | 53.3 | 1167 | 3 | US-09-315-850-9 | Sequence 9, Appl1 |
| 40 | 509.8 | 53.3 | 1489 | 2 | US-08-324-977-3 | Sequence 3, Appl1 |
| 41 | 509.8 | 53.3 | 1499 | 2 | US-08-384-616-3 | Sequence 3, Appl1 |
| 42 | 509.8 | 53.3 | 1499 | 2 | US-08-904-686A-3 | Sequence 3, Appl1 |
| 43 | 509.8 | 53.3 | 1499 | 3 | US-09-315-850-3 | Sequence 3, Appl1 |
| 44 | 509.8 | 53.3 | 1539 | 2 | US-08-470-426B-17 | Sequence 17, Appl |
| 45 | 509.8 | 53.3 | 1863 | 2 | US-08-470-426B-14 | Sequence 14, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-17
Sequence 17, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-17

Query Match 99.7%; Score 954.6; DB 3; Length 957;

Best Local Similarity 100.0%; Pred. No. 7e-287; Mismatches 955; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGAGCAAAATCCTAAACCTCAAGAAAACTAAAGAAACCTAACCCGTGCGCCACAG 60
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DB 241 TACCTTTGCCCCCTGTACGGGAAAGAGGCTCTGGCTGGGAGGAGTCTCTGTCCTCC 300
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DB 301 CGGGGCTCTGCGCCCTCTGTGGGGGCCCAAGCAAGCCCGGCAAGGTCTACCGAACTTGGGT 360
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DB 361 AAGGTCATCGATACCTCAGCGTGTGGCTTTGSCAGCTCATGGGGTACATACCTGTGCTC 420
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RESULT 2

US-09-878-281A-143
Sequence 143, Application US/09878281A
Patent No. 6762024

GENERAL INFORMATION:

APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

FILE REFERENCE: 35

CURRENT APPLICATION NUMBER: US/09/878, 281A

CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284

SOFTWARE: PatentIn version 3.1

SEQ ID NO 143

LENGTH: 957

TYPE: DNA

ORGANISM: hepatitis C virus

US-09-878-281A-143

Query Match 76.2%; Score 729; DB 3; Length 957;

Best Local Similarity 85.1%; Pred. No. 1.4e-216; Mismatches 813; Conservative 1; Mismatches 141; Indels 0; Gaps 0;

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DB 61 GACGTTAAGTTCGCGGCGCGGCGCAAGATCGTTGCGGAGTTTACTTGTTCGCGGAGG 120
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DB 181 AGGGCGCAGGCCATCCCAAAAGATCGGCGCGCACTGGCAAGTCTGTGGGAGCGTCCAGGA 240
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DB 541 CTCTGTCTTGTATCAACGTCGCGCTGTCTGCAATACAGTTAAGAACCAAGCACTTTC 600
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DB 601 TACATGCGACTAAATGACTGTGCAATGACAGCATCGTCTGCGCAGCTTCAGGAGACGCGGTG 660
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DB 721 GCGGCTGCGCCCAAGTGGCTGTGAGCGGCACTGCTGTCTCATAGAGTCTGCGGCT 780
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RESULT 3
US-08-836-075A-75
; Sequence 75, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1195 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEtical: NO
; ANTI-SENSE: NO
US-08-836-075A-75

Query Match      72.3%; Score 691.8; DB 3; Length 1195;
Best Local Similarity 81.8%; Pred. No. 6.2e-205;
Matches 780; Conservative 5; Mismatches 169; Indels 0; Gaps 0;

Oy      1 ATGAGACAATCTCTAACTCAAGAAAACTTAAAGAAACAATAACCGTGGCCACAG 60
      |||||
Db      239 ATGAGACAATCTCTAACTCAAGAAAAACCAAGAAACAATAACCGCGCCACAG 298

61 GACGTTAAGTCTCCGCGCGCGCCAGATCTGTGCGGAGTTTACTTGTTCGCGCGCAGG 120

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Db      299  GACCTTAAAGTTCCCGGGCGGATGGCCAGATCGTTGGCCGAATATACCTTGTTGCCNTGTGAGG 358
Oy      121  GGCCCAAGTTGGGTGTGCGCGGCCAAGAAAGCTTTGAACGGTCCACGCCAGTGA 180
Db      359  GGNCCAGGATNGATATATGCGCAACAGAAAGACTTCCGAACAGTCCCGAGCCAGTGGG 418
Oy      181  AGGGCCAGCCCAATCCCAAAAGATCGGGCGGCCCATGCGCAAGTCTCTGGGAGCGTCCAGA 240
Db      419  AGGGCCAGCCCAATCCCAAAAGATCGGAGCACTGCGCAAGTCTTGGGAGCGTCCAGA 478
Oy      241  TACCTTGGCCCTGTACGGGAACGAGAGGCTCGGACTGGGCAAGGATGGTCTCTCCGCC 300
Db      479  TATCCCTGGCCCTGTATGGGAACGAGAGGCTCGGATGGGCAAGGATGGTCTCTCCGCC 538
Oy      301  CGGGGCTCTCGCCCTCTGTGGGGGCCCAACGACCCCGGACAGGTCAAGCACTTGGGT 360
Db      539  CGGGGCTCTCGCCCTCGTATGGGGGCCCAACGACCCCGGACATAGGTGCGGCAACTTGGGT 598
Oy      361  AAGGTATCGATACCTCTCAAGTGTGGCTTGGGCACTCATGGGGTATCATCTGTGTCT 420
Db      599  AAGGTATCGATACCTCTCAAGTGTGGCTTGGGCACTCATGGGGTATCATCTGTGTCT 658
Oy      421  GGCGCCCTGTGGGGCGGGCGTTGCCAGAGCCCTCGCATGGCGTGGCGGGTCTTGAAGAC 480
Db      659  GGCGCCCAAGAGGAGGCGTGGCCAGAGCTCTGGCGATGGCGTGAAGTCTTGAAGAC 718
Oy      481  GGGATTAATTTATGCAACAGGGAACCTTCCCGGGTGTCTCTTTTCTATCTTCTGGT 540
Db      719  GGGATTAATTTATGAAACAGGGAACCTTCCCGGGTGTCTCTTCTTATCTCTCTCTGGT 778
Oy      541  CTCTTGTCTGTATCACCGTGGCCCGTGTCTGCCATACAGGTTAAAGCAACAGCCATTC 600
Db      779  CTCTGTCTGTGAATTACCGAGCCAGTTCGTGTGTGAATAACAAAACACCGAGAACACA 838
Oy      601  TACATGGCGACTATAGCTGTGGCCAAAGACAGATCGTCTGGCAGCTCAGGGAACGGGTG 660
Db      839  TACATGGTGTACTAACGACTGTTCAAACAGTAGACATCACTGGCAGCTTNNNNNCGCGGTG 898
Oy      661  CTCATATTCCTGGATGTGTCCCTGTGAGAGGTCAAGTATATAGAACCTTCTGTGGACA 720
Db      899  CTTTACGTTCTGGATGTCGTCTCCCTGTGAACGAGAGGGCAACAGTTCCGGGTGTGAATT 958
Oy      721  GCGGTCTTGGCCCAAGTGGCGTGTGAGCGCAACTGTGTGCTCTCACTAGAGGTCTGGGGCT 780
Db      959  CCAGTCAACGCCCAAGTAAACGTAACGCGCACTGTGTCCCTTAAACGAGGGTGTGGCATCG 1018
Oy      781  CACATTAATACATTCGTGATGTCCGCCCAACCTCTGTCTCTGCCATATCATAGGGGAAGCTA 840
Db      1019  CACATTCACACATTCGTAGCGTCCGCAACATTTGTGTGTGTGTGTGTGTGTGTGTGTGT 1078
Oy      841  TGCGGCGCTGTGATGATAGAGGCGCAAGTGGCGTGTCTCACCGCAATACACTACTTTT 900
Db      1079  TGTGGCCCGATATGATGATAGCTGCCCAAGTGTGTATGTGTCTCTGCGGAGCATCATCACTTT 1138
Oy      901  GTCCAGGAATGCAACTGCTCATATATCCAGAGCCATATCAAGAGCATGCAATG 954
Db      1139  GTCCAGGACGTGAATCTGTTCAATCTTACCGGGGCACTAAACGGGGCTCGAATG 1192

RESULT 4
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young

```


INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9589 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-2

Query Match 70.5%; Score 674.6; DB 2; Length 9589;
 Best Local Similarity 81.6%; Pred. No. 4.7e-199;
 Matches 779; Conservative 1; Mismatches 175; Indels 0; Gaps 0;

1 ATGACACAATCTTAACTCAAGAAAACTAAAGAAACACTTAACCGTCCCAAG 60
 341 ATGACACAATCTTAACTCAAGAAAACTAAAGAAACACTTAACCGTCCCAAG 400
 61 GACGTTAAGTCCCGGGGGGGGGGCGGCAAGTCTTGGCGGAGTTAATTGTTCCCGCAG 120
 401 GACGTTAAGTCCCGGGGGGGGGGCGGCAAGTCTTGGCGGAGTTAATTGTTCCCGCAG 460
 121 GGGCCGAGTTGGGGTGGGGGGGGGCGGCAAGAAAGTCTTGAAGCGGTCCGAGCGAGTGA 180
 461 GGGCCGAGTTGGGGTGGGGGGGGGCGGCAAGAAAGTCTTGAAGCGGTCCGAGCGAGTGA 520
 181 AGGCGCAGCCCATCCCAAAAGATCGGCGCGCACTGCGCAAGTCTTGGGGAAGTCCAGGA 240
 521 AGGCGCAGCCCATCCCAAAAGATCGGCGCGCACTGCGCAAGTCTTGGGGAAGTCCAGGA 580
 241 TACCTTGGGCGCTGTACGAGGAAGAGGCGCTCGGCTGGGAGGAGTCTCTCTCCGCC 300
 581 TACCTTGGGCGCTGTACGAGGAAGAGGCGCTCGGCTGGGAGGAGTCTCTCTCCGCC 640
 301 CGGGGCTCTGGCGCTGTGGGGGGGCGGCAAGAAAGTCTTGGCGGAGTCTTGGCGGAGT 360
 641 CGAGGTTCCGCTCTTGGGGGGGCGGCAAGAAAGTCTTGGCGGAGTCTTGGCGGAGT 700
 361 AAGGTATCATATCACTTACGCTGTGGCTTGGCGAGTCTTGGCGGAGTCTTGGCGGAGT 420
 701 AAGGTATCATATCACTTACGCTGTGGCTTGGCGAGTCTTGGCGGAGTCTTGGCGGAGT 760
 421 GGGCGCGCTGTGGGGGGGGGGGCGGCAAGAGCTTGGCGGAGTCTTGGCGGAGTCTTGG 480
 761 GGGCGCGCTGTGGGGGGGGGGGCGGCAAGAGTCTTGGCGGAGTCTTGGCGGAGTCTTGG 820
 481 GGGATAAATATGAAGAGGGAAGTCTTGGCGGAGTCTTGGCGGAGTCTTGGCGGAGTCTTGG 540
 821 GGGATAAATATGAAGAGGGAAGTCTTGGCGGAGTCTTGGCGGAGTCTTGGCGGAGTCTTGG 880
 541 CTCTTGTCTGTATCAGCGTCCGCTGTGCTGCTTACAGGTTAAGAAACAGCACCTTC 600
 881 CTCTTGTCTGTATCAGCGTCCGCTGTGCTGCTTACAGGTTAAGAAACAGCACCTTC 940
 601 TACATGCGCACTAATGACTGTGCAATGACAGATCTTGGAGCTTGAAGGAGCGCGT 660
 941 TACATGCGCACTAATGACTGTGCAATGACAGATCTTGGAGCTTGAAGGAGCGCGT 1000
 661 CTCCATGTCCTGATGATGTCCTGCTGAGAGGTCAGAGTATAGAGCTTCTGTTGAGCA 720
 1001 CTCCATGTCCTGATGATGTCCTGCTGAGAGGTCAGAGTATAGAGCTTCTGTTGAGCA 1060
 721 GCGGCTTCGCGCAAGTGTGTGAGCGCACTGCTGCTCACTAAGGTCCTGCGGCT 780
 1061 GCGGCTTCGCGCAAGTGTGTGAGCGCACTGCTGCTCACTAAGGTCCTGCGGCT 1120
 781 CACATTGATACATGATGTCCGCAACCTTGTCTTGCCTTATACATAGGGAAGCTTA 840
 1121 CACATTGATACATGATGTCCGCAACCTTGTCTTGCCTTATACATAGGGAAGCTTA 1180
 841 TGGGGCTGTGATGATGAGGAGGCAAGTGTCCGTCGCTTCAACCGCAATACACTTT 900
 1181 TGGGGCTGTGATGATGAGGAGGCAAGTGTCCGTCGCTTCAACCGCAATACACTTT 1240
 901 GTCCAGGAATGCACTCTCCATATACCAAGGCCATATCAAGAGCATCGAATGG 955

Db 1241 GTCCAGGAATGCACTCTCCATATACCAAGGCCATATCAAGAGCATCGAATGG 1295

RESULT 6
 US-07-925-695-6
 Sequence 6, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-6

Query Match 66.9%; Score 640.6; DB 2; Length 9511;
 Best Local Similarity 62.9%; Pred. No. 1.8e-188;
 Matches 601; Conservative 159; Mismatches 195; Indels 0; Gaps 0;

1 ATGACACAATCTTAACTCAAGAAAACTAAAGAAACACTTAACCGTCCCAAG 60
 342 ATGACACAATCTTAACTCAAGAAAACTAAAGAAACACTTAACCGTCCCAAG 401
 61 GACGTTAAGTCCCGGGGGGGGGGCGGCAAGTCTTGGCGGAGTTAATTGTTCCCGCAG 120
 402 GACGTTAAGTCCCGGGGGGGGGGCGGCAAGTCTTGGCGGAGTTAATTGTTCCCGCAG 461
 121 GGGCCGAGTTGGGGTGGGGGGGGGCGGCAAGAAAGTCTTGAAGCGTCCAGCGCATGGA 180
 462 GGGCCGAGTTGGGGTGGGGGGGGGCGGCAAGAAAGTCTTGAAGCGTCCAGCGCATGGA 521
 181 AGGCGCAGCCCATCCCAAAAGATCGGCGCGCACTGCGCAAGTCTTGGGGAAGTCCAGGA 240
 522 GAGCGCAGCCCATCCCAAAAGATCGGCGCGCACTGCGCAAGTCTTGGGGAAGTCCAGGA 581

| | | | |
|----|------|---|------|
| OY | 241 | TACCTTGGCCCCCTGTATAGGGAGCGAGGGCCCTCGGTGTGGGACGGGTGGCTCTGTGCCCC | 300 |
| Db | 582 | TAUCCUUGACCCCTGUAAGCGAAACGAGGAGUUGCGGCTGAGCGAGUGGGCTCCUGCCCCC | 641 |
| OY | 301 | CGGGGCTCTGCCCCCTCGTGGGGGCCCCAAACGACCCCGGACACAGGTCAACGAACTTGGGT | 360 |
| Db | 642 | CGCGGGUCUCGUCUACUUGGGGGCCCAACCGACCCTCCGGCAUAGUACGCAUUGUGGC | 701 |
| OY | 361 | AAGGTCAATCGATACCCCTCACGTGTGGCTTTGGCCGACTATGGGGTAACTATACCTGTGCTC | 420 |
| Db | 702 | AGAGCAUACGAAUACCAUUAACGUGUGUUUGCCGACUUCAGGGGUAUUCUUGCCU | 761 |
| OY | 421 | GGCGCCCCGTGGGGCGGGCTTGGCCAGAGCCCTCGCGCAATGGCGTGGGGCTCTGGAGAC | 480 |
| Db | 762 | GGCGCCCCGGUGAGAGGGUGCGCCAGAGUCUUGGACACGGUGUUAAGGUCUUGGAGGAC | 821 |
| OY | 481 | GGGATAAATTATGCAACAGGGAATTGCCGGTCTCTTTTCTATCTTTCTGTGCTGCT | 540 |
| Db | 822 | GGGAAUAAUUAACGCAACAGGGAUUUAACCCGGUUCUUUUUUUUUUUUUUUUUUUUUUUU | 881 |
| OY | 541 | CTCTTGCTGTGATATACCGTGGCCGGTGTCTGCTATACAGTTAAACAAACGACCATTC | 600 |
| Db | 882 | CUUCGUAUCUGGUCUACARUCCAGGAGUUGGACUGAGAAUGUAGGAAUAUUAUGUUCAGC | 941 |
| OY | 601 | TACATGGCGACTAATGACTGTGGCCAAATGACAGCATCGTGTGGACCTCAGGAGCGCGGTG | 660 |
| Db | 942 | UACUACGCCACUUAAGAUUUGCUAAACAAACAGCAUACUUGGACGACUACUAGCGCAUU | 1001 |
| OY | 661 | CTCCATGTTCCGGAATGTGTCCCCCTGTAGAGAGGTCAAGTAATAGAACCTTCTGTTGGA | 720 |
| Db | 1002 | CUCCAUUCUCCUGAUGGCGUCCCAAGUGAGAAAGUAAUAGGCAACCUUGCRUUGCUGAUA | 1061 |
| OY | 721 | GCGGCTCGGCCCAACGTGGCTGTGAGCCGACCTGTGTGCTCTCATTAAGAGTCTGCGGCT | 780 |
| Db | 1062 | CAAGUAAACCCBRACGUGGCUUGUAAACACGCGGUGGCUACUCGUAACCUUGGAACA | 1121 |
| OY | 781 | CACATTTGATACCATGTGTGATGTCCGCCACCTCTGTGCTCTGCCCCCTATACATAGGGGACCTA | 840 |
| Db | 1122 | CACGUCGACAUAGUAGUAAUGGCAACUACGCGTUCUCGCCCCUUAUGUGGGAUADUG | 1181 |
| OY | 841 | TGCGCGCTGTGATATAGACAGCGGAAAGTTGCGGTGCTCAACGCCAAATACCATCTTTT | 900 |
| Db | 1182 | UGCGGGGCGGUAUUAUVCUATGCGAGGCUUACAUAGUAUACACCAACGCCACAACUUC | 1241 |
| OY | 901 | GTCACGAATGCACTGCTCCATATACCAGGCCATATCACAGGACATCGAATGG | 955 |
| Db | 1242 | ACCCAAAGUGGCAUCUGUCCAUUCAACAAAGUUCACUACCGGCAUCCGCAUGG | 1296 |

/ APPLICATION NUMBER: US/07/925,695
 / FILING DATE: 19920807
 / CLASSIFICATION: 435
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: JP 287402/91
 / FILING DATE: 09-AUG-1991
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: JP 360441/91
 / FILING DATE: 05-DEC-1991
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Wellacher, Robert G.
 / REGISTRATION NUMBER: 20,531
 / REFERENCE/DOCKET NUMBER: 06/87-48009
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (202) 659-2811
 / TELEFAX: (202) 659-1462
 / TELEX: WUI 64470
 / INFORMATION FOR SEQ ID NO: 7:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 9511 base pairs
 / TYPE: NUCLEIC ACID
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 /

| | | | | |
|---------------------------|-------|---------------------|-----------|-------------|
| Query Match | 66.9% | Score 640.6; | DB 2; | Length 951; |
| Best Local Similarity | 79.0% | Pred. No. 1.8e-188; | | |
| Matches 754; Conservative | 6; | Mismatches 195; | Indels 0; | Gaps 0 |

| | | | |
|----|-----|--|------|
| QY | 1 | ATTGACCAAAATCTCTAAACCTCAAGAGAAAACTAAATAAAACATCAACCGTCCGACAG | 60 |
| Db | 342 | ATGAGCAAAATCTCTAAACCTCAAGAGAAAAACAAAAGAAACAAACCGCGCCACAG | 401 |
| QY | 61 | GACGTTAAGTTCCCGGGCGGCGGCAGATCGTTGCGAGTTTACTTTGTCGCGCAGG | 120 |
| Db | 402 | GACGTTAAGTTCCCGGGGTGGCGGTCAGATCGTTGGCGAGTTTACTTTGTCGCGCAGG | 461 |
| QY | 121 | GGCCCCAGGTTGGGTGTGTGCGCGCCCAAGAGAACTTCTGAACGGTCCAGCCAGTGTGA | 180 |
| Db | 462 | GGCCCCAAGTTGGGTGTGTGCGCGCCCAAGAGAACTTCTGAAAGCGATCCAGCCGCGTGA | 521 |
| QY | 161 | AGGCGCGACCCCATCCCAAAAAGATGGGCGCGCACTGGCAAGTCTTGSGAGAGTCCAGGA | 240 |
| Db | 522 | CGAGCGCAGCCCATCCCGAAAGATGGCGGTCTCACCGCAAGTCTTGSGAGAAAGCAGGA | 581 |
| QY | 241 | TACCTTGGCCCCCTGTACGGGAAAGAGGGGCTCGGCTGGGCGAGGTGCTCTGTCCCC | 300 |
| Db | 582 | TATCTTGGCCCCCTGTACGGGAAAGAGGGGTGCGGCTGGGCGAGGTGCTCTGTCCCC | 641 |
| QY | 301 | CGGGGCTCTCGCCCTCGTGGGGGCCCAACGATCCCCGGGCAAGTCAAGCAACTTGGGT | 360 |
| Db | 642 | CGGGGCTCTCGCTTACTTGGGGGCCCAACGATCCCCGGGCAATGATCAAGCAATTGGGT | 701 |
| QY | 361 | AAGGTATCGATACCCCTCAGCGTGTGGCTTTGSCGACTCATGGGGTATACATCTGTGTC | 420 |
| Db | 702 | AGAGTATCGATACCATTAACGTGTGTTTGGCGACTCTCATGGGTTACATCCCTGTCTT | 761 |
| QY | 421 | GGCGCCCTGTGGCGGGCGTTGCCAGAGCCCTCGCGCATGGCGTGGGTCCTGAGAAC | 480 |
| Db | 762 | GGCGCCCGGTGTGGAGGGGTGCGCCAGAGCTCTGGCACAGGGTGTAGGGTCTGAGGAGC | 821 |
| QY | 481 | GGGATTAATATATGCAACAGGGAACTTGGCCGGTTGCTCTTTTCTATCTTTGSGTGT | 540 |
| Db | 822 | GGGATTAATATATGCAACAGGGAATTTACCCGGTGTCTTTTCTATCTTTTGGTGT | 881 |
| QY | 541 | CTCTGTCTTGTATCACCGTCCGTGTCTGCAATACAGGTTAAAGCAACAGCATTTTC | 600 |
| Db | 882 | CTTCTGTATGTGTACATGTCAATGTCAATGTCTGTGAGTGAAGTCAAGGAACATTAAGTCTAGC | 941 |
| QY | 601 | TACATGGCGAATATATGACTGTGCCAATGACAGATGCTGTGGAGCTCAGGACCGGGT | 660 |
| Db | 942 | TACTATGCGCACTAATGATTTGTCTAAACAAACAGCATCACTGGCAGCTCATGTACCGAGTT | 1001 |

Db 1170 TGGCGGTCTGTCCTTCTTGTGTGTCACACTGTTTACTTCTCTCCAGCGCCACTGAGC 1229
Qy 901 GTCCAGGAATGCACTGCTCATATACCAGAGCCATATCAAGAACATGCAATG 955
Db 1230 ACGAAGACTGCAATGTTTCTATCTATCCGCGCATATACGGGTCACTGATGG 1284

RESULT 11

US-08-811-566-5
; Sequence 5, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEITICAL: NO
; ANTI-SENSE: NO
; US-08-811-566-5

Query Match 53.9%; Score 516.2; DB 3; Length 12980;
Best Local Similarity 71.2%; Pred. No. 1.3e-149;
Matches 680; Conservative 1; Mismatches 274; Indels 0; Gaps 0;

Qy 1 ATGAGCAAAATCTCTAAACCTCAAGAAACCTAAAGAAACATAACCGTCCGACAG 60
Db 342 ATGAGCAAAATCTCTAAACCTCAAGAAACCTAAAGAAACATAACCGTCCGACAG 401
Qy 61 GACGTAAATCCCGGGCGGCGGCGGCAATCGTTGCGGAGTTTACTTGTTCGCGGAG 120
Db 402 GACGTAAATCCCGGGCGGCGGCGGCAATCGTTGCGGAGTTTACTTGTTCGCGGAG 461
Qy 121 GGGCCCAAGTTGGGTGTGCGCGCGCAAGAAAGACTTGTGACGCTCCAGCCAGTGA 180
Db 462 GGGCCCAAGTTGGGTGTGCGCGCGCAAGAAAGACTTGTGACGCTCCAGCCAGTGA 521
Qy 181 AGGCGCAGAGCCATCCCAAAAGATCGGCGGCGCACTGGCAAGTCTGGGGAAGTCAAG 240
Db 522 AGAGCTAGAGCTTATCCCAAGAGCGTGTGCGCCAGAGGCGAGCACTGGGCTCAAGCC 581
Qy 241 TACCTTGGCCCTGTACGGGAACGAGGCGCTCGGCTGGGCGAGGCTCTGTCTCCGCC 300

Db 582 TACCTTGGCCCTCTATGCAATGAAGGTTGCGGAGTGGGCGGAGTGCCTCTGCC 641
Qy 301 CGGGGCTCTGGCCCTCTATGCAATGAAGGTTGCGGAGTGGGCGGAGTGCCTCTGCC 360
Db 642 CGGGGCTCTGGCCCTCTATGCAATGAAGGTTGCGGAGTGGGCGGAGTGCCTCTGCC 701
Qy 361 AAGGTATGATACCTCTACGTTGCTTGTGAGGCTCAATGAGGTTATACCTGTGCTC 420
Db 702 AAGGTATGATACCTCTACGTTGCTTGTGAGGCTCAATGAGGTTATACCTGTGCTC 761
Qy 421 GGGCCCTCTGGGCGGCGTTCGCAAGCCCTGCGCATGAGCGTCCGGTCTGAGAGAC 480
Db 762 GGGCCCTCTGGGCGGCGTTCGCAAGCCCTGCGCATGAGCGTCCGGTCTGAGAGAC 821
Qy 481 GGGATTAATATGAAGAGAACTTGCCTGCTCTTCTTATCTTCTGCTGCTGCT 540
Db 822 GGGATTAATATGAAGAGAACTTGCCTGCTCTTCTTATCTTCTGCTGCTGCTGCT 881
Qy 541 CTCTTGTCTGTATACCGTTCGCGGCTGCTGCAATGAGGTTAAGAACAGCAAGCACTTC 600
Db 882 CTCTTGTCTGTATACCGTTCGCGGCTGCTGCAATGAGGTTAAGAACAGCAAGCACTTC 941
Qy 601 TACATGCGCATATGATGATGCTGCTCAATGACAGATGCTTGGAGCTCAGAGACGCG 660
Db 942 TACATGCGCATATGATGATGCTGCTCAATGACAGATGCTTGGAGCTCAGAGACGCG 1001
Qy 661 CTCTATGCTGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db 1002 CTCTATGCTGTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1061
Qy 721 GCGGCTCGCCCAAGCGTGTGAGCGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Db 1062 GCGGCTCGCCCAAGCGTGTGAGCGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1121
Qy 781 CAATGATATCAATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 1122 CAATGATATCAATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1181
Qy 841 TGGGCGCTGTGATGATGATGAGGCGCAAGTTCGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Db 1182 TGGGCGCTGTGATGATGATGAGGCGCAAGTTCGCTGCTGCTGCTGCTGCTGCTGCTGCT 1241
Qy 901 GTCCAGGAATGCACTGCTCATATACCAGAGCCATATCAAGAACATGCAATG 955
Db 1242 ACGAAGACTGCAATGTTTCTATCTATCCGCGCATATACGGGTCACTGATGG 1296

RESULT 12

US-09-034-756-5
; Sequence 5, Application US/09034756
; Patent No. 6392028
; GENERAL INFORMATION:
; APPLICANT: RICE, CHARLES et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAFERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MO
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/034,756
; FILING DATE: 04-May-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:

```

; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 6029-4831
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 314-727-5188
; TELEFAX: 314-727-6092
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-034-756-5

Query Match      53.9%; Score 516.2; DB 3; Length 12980;
Best Local Similarity 71.2%; Pred. No. 1.3e-149;
Matches 680; Conservative 1; Mismatches 274; Indels 0; Gaps 0;

QY      1 ATGAGCACAATCTCTAAACCTCAAGAAAACTAAAGAAACCTAACCGTCCCAAG 60
DB      342 ATGAGCAAGATCTCTAAACCTCAAGAAAACTAAAGAAACCTAACCGTCCCAAG 401
QY      61 GACCTTAAGTTCCTGGGCGGGGCGGCAATCGTTGGCGGAGTTTACTTTGTCGGCGCAG 120
DB      402 GACCTCAAGTTCCTGGGCGGGGCGGCAATCGTTGGCGGAGTTTACTTTGTCGGCGCAG 461
QY      121 GGGCCCAAGTGGTGGTGGCGCGCCCAAGAAAGACTTCTGAACGGTCCCAAGCAAGTGA 180
DB      462 GGGCCCTAGATTGGGTGGTGGCGCGCAAGAAAGACTTCCGACGGTGCACACTCGAGGT 521
QY      181 AGGCGCCAGCCCATCCCAAAAGATGCGCGCCCACTGGCAAGTCTTGCGGAGCTGTCAGGA 240
DB      522 AGAGCTGAGCTATATCCCAAGGCAAGTGGCGCCCAAGGCAAGACCTGGGCTCAGCCGCGG 581
QY      241 TACCTTGGGCGGCTGTACGGGAAGAGGGGCTCGGCTGGGAGGGTGGCTCTGTCGCC 300
DB      582 TACCTTGGGCGGCTGTATGGCAATGAGGGTGGCGGGTGGGAGGGTGGCTCTGTCGCC 641
QY      301 CGGGGCTCTCGCCCTCGTGGGGCCCAAGACGCCCGGCAAGGTCAAGCACTTGGGT 360
DB      642 CGTGGCTCTCGGCTAGCTGGGGCCCAAGACGCCCGGCTAGGTGCGCAATTTGGGT 701
QY      361 AAGGTATGATACCTTCAGCTGTGGCTTTGSCAGACTCATAGGGGATACATACCTGTGCTC 420
DB      702 AAGGTATGATACCTTCAGCTGTGGCTTTGSCAGACTCATAGGGGATACATACCTGTGCTC 761
QY      421 GGGCCCTCTGGGGCGGGTGGCCAGAGCCCTCGGCGCATGGCGGGTCTGGAAGAC 480
DB      762 GGGCCCTCTTGGAGGGGTGCGAGGGCCCTGGGGCATGGCGGGTCTGGAAGAC 821
QY      481 GGGATTAATTAATGCAAGGAACTTGCACGGTGTCTCTTTCTATCTTCTGTCGCT 540
DB      822 GGGCTGAATCTATGCAAGGAACTTCTGCTGTGCTCTTCTCTATCTTCTTCTGCGC 881
QY      541 CTCTTGTCTTGTATCACCGTGGCGGTGTCTGCAATACAGTTAAGAACAGCAACCACTTC 600
DB      882 CTGCTCTCTTGTGACCGTGGCGGTCTGACCTTACCAAGTGGCGCAATTTCTCGGGGCTT 941
QY      601 TACATGGGAGCTAATGATGTGGCAATGACAGCAATCGTCTGGAGCTTAAGGAACGCGGTG 660
DB      942 TACATGTACACCAATGATGTGGCTTAATCGAGTATTTGTATCGAGGCGGCGGATGCAATC 1001
QY      661 CTCTATTTCTGATGTGTCCCTGTGAGAGGTCAATTAAGCACTTCTGTTGACA 720
DB      1002 CTGCACTCTCGGGGTGTGTCTTGTGCGTTCGCAAGGATTAAGCCTCAAGGTGTGGGTG 1061
QY      721 GCGGTCTGCGCCCAAGTGGCTGTGAGCGCAAGCTGTGTCTCTCACTAAGAGTCTGGAGGCT 780
DB      1062 GCGGTATCCCAAGGTGGCGCAAGGGAAGGCAAACTCCCAAGAACAGAGCTTGTGAGGT 1121

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QY      781 CACATTGATACCATCGTGAATGTCGCCAACCTCTGCTCTGCTATATACATAGGGAGACTTA 840
DB      1122 CATATGATCTGCTTGTGTGGAGAGCCCACTTGTCTGCTGCGCCCTCTACGTGGGGAGCTG 1181
QY      841 TGGGGGCTGTGTATGATAGGAGGCAAGTTGCGGTCTGTACCGCAATACATACCTTTT 900
DB      1182 TGGGGGTCTGTCTTTGTTGTGATCACTGTATTACCTTCTCTCCAGGCGCCACTGAGACG 1241
QY      901 GTCCAGGAATGCACTGCTCATATATACCGGCGCATATCAAGAGATGGAATG 955
DB      1242 ACCCAAGACTGCAATGTTCTATCTATCTCCGCGCATATTAAGGATATGCAATG 1296

RESULT 13
US-10-259-275-39
; Sequence 39, Application US/10259275
; Patent No. 6921634
; GENERAL INFORMATION:
; APPLICANT: Lemon, Stanley M.
; TITLE OR INVENTION: REPLICATION COMPONENT HEPATITIS C VIRUS AND METHODS OF USE
; FILE REFERENCE: 265,0007 0120
; CURRENT APPLICATION NUMBER: US/10/259,275
; PRIOR FILING DATE: 2003-01-13
; PRIOR APPLICATION NUMBER: US 60/171,909
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US 09/747,419
; PRIOR FILING DATE: 2000-12-23
; PRIOR APPLICATION NUMBER: US 60/325,236
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US 60/338,123
; PRIOR FILING DATE: 2001-11-13
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39
; LENGTH: 9275
; TYPE: DNA
; ORGANISM: ARTIFICIAL
; FEATURE:
; OTHER INFORMATION: nucleotide sequence encoding hepatitis C virus polypeptide
; OTHER INFORMATION: derived from HCV-N
US-10-259-275-39

Query Match      53.8%; Score 514.6; DB 3; Length 9275;
Best Local Similarity 71.1%; Pred. No. 3.3e-149;
Matches 679; Conservative 1; Mismatches 275; Indels 0; Gaps 0;

QY      1 ATGAGCACAATCTCTAAACCTCAAGAAAACTAAAGAAACCTAACCGTCCCAAG 60
DB      1 ATGAGCAAGATCTCTAAACCTCAAGAAAACTAAAGAAACCTAACCGTCCCAAG 60
QY      61 GACCTTAAGTTCCTGGGCGGGGCGGCAATCGTTGGCGGAGTTTACTTTGTCGGCGCAG 120
DB      1 GACCTCAAGTTCCTGGGCGGGGCGGCAATCGTTGGCGGAGTTTACTTTGTCGGCGCAG 120
QY      121 GGGCCCAAGTGGTGGTGGCGCGCCCAAGAAAGACTTCTGAACGGTCCAGGCAAGTGA 180
DB      121 GGGCCCAAGTGGTGGTGGCGCGCCCAAGAAAGACTTCTGAACGGTCCAGGCAAGTGA 180
QY      181 AGGCGCCAGCCCATCCCAAAAGATGCGCGGCCCATCTGCAAGTCTGGGAGCTGTCAGGA 240
DB      181 AGGCGCAAGCTATATCCCAAGGCTGCGCGGCCCATCTGCAAGTCTGGGAGCTGTCAGGA 240
QY      241 TATCTTGGGCGGCTCTATATGCAATGAGGAGCATGGGGTGGGCAAGATGCTCTGTCAACC 300
DB      241 TATCTTGGGCGGCTCTATATGCAATGAGGAGCATGGGGTGGGCAAGATGCTCTGTCAACC 300
QY      301 CGGGGCTCTGCGCCCTGTGGGGGCCCAAGAGACCCCGGCAAGGTCAAGCACTTGAAGT 360
DB      301 CGGGGCTCTGCGCCCTGTGGGGGCCCAAGAGACCCCGGCAAGGTCAAGCACTTGAAGT 360
QY      361 AAGGTATGATACCTTCAGCTGTGGCTTTGSCAGACTCATAGGGGATACATACCTGTGCTC 420

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Db 361 AAGTCATCATGATCCCTCAGATGCGGCTCGCCGACCTCATGGGGTACATTCGCTGTC 420
Qy 421 GGGCCCCCTGTGGCGGGGCTTGGCAGAGCCCTCGCGCATGGCGGGCTCTGAGAGAC 480
Db 421 GGGCGCCCCCTTGAAGGGGGGCTGCGCAGGGCTTGGCAATGGTGTCCGGTCTGAGAGAC 480
Qy 481 GGGATTAATTAATGCAAGGGAACCTGCGGGTGTCTCTTTTCTATCTTCTGAGCT 540
Db 481 GGGGTGAATCTATGCAAGGGAACCTGCGGGTGTCTCTTTTCTATCTTCTGAGCT 540
Qy 541 CTCTGTCTTGTATCAGCGTGCCTGCTGTGCAATACAGTTAAACAACAGCCACTTC 600
Db 541 CTGCTGTCTGTGACCGTACAGCTTCGCTCATGAAGTGAAGCGTAACGCGTCCGGGTA 600
Qy 601 TACATGCGCATATGACTGTGCAATGACAGCATGCTGTGAGCTTACGAGGACCGGTG 660
Db 601 TACCATGTGCAAGACGACTGTCTCAACATGTGTGTAAGGGCGGCGACTTGTATC 660
Qy 661 CTCCATGTTCTGTGATGTGCTCCCTGTGAGAGTCAAGTAATAGAACCTTCTGTGACA 720
Db 661 ATGATATCTCCCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Qy 721 GCGGCTGCGCCCAAGTGTGAGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Db 721 GCGCTCACTCCCAAGTGTGAGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Qy 781 CACATTTGATACATGCTGATGTGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Db 781 CACATTTGATACATGCTGATGTGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Qy 841 TGGGCGCTGTGATGATGAGAGCGCAAGTTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Db 841 TGGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
Qy 901 GTCCAGGATGCACTGCTCCATATACCCAGGCAATACAGGACATGCAATG 955
Db 901 TTGAGAGATGCAATGTTGATCTACCCCGGCAAGGCTGAGTCAAGGATG 955

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RESULT 14
US-08-823-895A-26
; Sequence 26, Application US/08823895A
; Patent No. 6433159
; GENERAL INFORMATION:
; APPLICANT: Kevin P. Anderson
; TITLE OF INVENTION: Compositions And Methods For
; TITLE OF INVENTION: Treatment Of Hepatitis C Virus-Associated Diseases
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jane Massey Licata, Esq.
; STREET: 66 E. Main Street
; CITY: Marlton
; STATE: NJ
; COUNTRY: USA
; ZIP: 08053
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
; COMPUTER: IBM 486
; OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/823,895A
; FILING DATE: March 17, 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/453,085
; FILING DATE: May 30, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/945,289
; FILING DATE: September 10, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane Massey Licata

```

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; REGISTRATION NUMBER: 32,257
; REFERENCE/DOCKET NUMBER: ISPH-0203
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (609) 779-2400
; TELEFAX: (609) 810-1454
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9416
; TYPE: Nucleic
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: NO
; US-08-823-895A-26

Query Match      53.8% Score 514.6; DB 3; Length 9416;
Best Local Similarity 71.1%; Pred. No. 3,3e-149;
Matches 679; Conservative 1; Mismatches 275; Indels 0; Gaps 0;

1 ATGAGCAAAATCTTAACTCAAGAAAACTTAAAGAAACAATAACCTGCGCCACAG 60
Db 342 ATGAGCAAGATCTTAACTCAAGAAAACTTAAAGAAACAATAACCTGCGCCACAG 401
Qy 61 GAGGTAAATTCCCGGGCGGCGGCGAGATGTTGGCGGAGTTTACTTTGTCGGCGCAGG 120
Db 402 GAGGTCAAGTTCCCGGGTGGCGGCTGAGATGTTGAGTTTACTTTGTCGGCGCAGG 461
Qy 121 GGGCCCAAGTTGGGTGTGGCGGCGGCAAGGAGACTTCTGAAAGGTCCCAAGCGTGA 180
Db 462 GGGCTTGAATGAGTGTGGCGGCGGCAAGGAGACTTCTGAAAGGTCCCAAGCGTGA 521
Qy 462 GGGCTTGAATGAGTGTGGCGGCGGCAAGGAGACTTCTGAAAGGTCCCAAGCGTGA 521
Db 181 AGGCGCAGCCATCCCAAAAGATCGCGGCGCACTGGCAATGCTGGAGACGCTCAGGA 240
Qy 522 AGAGCTGAGCTATCCCAAGGACGTCGCGCCGAGAGGACAGACCTGAGTCCAGCCGG 581
Db 241 TACCTTGGCCCTGTGACGGAAGCAAGGCTGCGCTGCGGAGGAGTCTCTGCTCC 300
Qy 582 TACCTTGGCCCTGTGACGGAAGCAAGGCTGCGCTGCGGAGGAGTCTCTGCTCC 641
Db 301 CGGGGCTTGGCCCTGTGACGGAAGCAAGGCTGCGCTGCGGAGGAGTCTCTGCTCC 360
Qy 642 CGTGGCTTGGCCCTGTGACGGAAGCAAGGCTGCGCTGCGGAGGAGTCTCTGCTCC 701
Db 361 AAGTCATCATGATCCCTCAGTGTGCTTGTGCGACTCATGAGGATACATACCTGTGCTC 420
Qy 702 AAGTCATCATGATCCCTCAGTGTGCTTGTGCGACTCATGAGGATACATACCTGTGCTC 761
Db 421 GGGCGCCCTGTGAGGCGGCTTGGCAAGCCCTGCGGATGAGTGTGCGGAGTGTGAGAGAC 480
Qy 762 GGGCGCCCTGTGAGGCGGCTTGGCAAGCCCTGCGGATGAGTGTGCGGAGTGTGAGAGAC 821
Db 481 GGGATTAATTAATGCAAGGGAACCTGCGGGTGTCTCTTTTCTATCTTCTGAGCT 540
Qy 822 GGGGTGAATCTATGCAAGGGAACCTTCTGAGTGTCTTCTTCTTCTTCTTCTTCTG 881
Db 541 CTCTGTCTTGTATCAGCGTGCCTGCTGTGCAATACAGGTTAAAGAAACAACGCACTTC 600
Qy 882 CTGCTCTTGTCTGACTGTGCGGCTTTCAGCTTACCAAGTGGCAATTCCTGGGGCTT 941
Db 601 TACATGCGCATATGACTGTGCAATGACAGCATGCTGTGAGCTCAGAGGACGCGGTG 660
Qy 942 TACCATGTACCAATGATTCCTTAACTGAGTGTGTGTAAGAGGCGGCGCATG 1001
Db 661 CTCCATGTTCTGTGATGTGCTCCCTGTGAGAGTCAAGTAAAGACCTTCTGTGAGCA 720
Qy 1002 CTGCACTCTCGGGGTGTGCTCTTGTGAGAGTGAAGCCCTGAGATGTGGGTG 1061
Db 721 GCGGTCTGCGCCCAAGCTGTGAGCCGACCTGCTGCTCTCACTAAGAGTGTGCGGGCT 780
Qy 1062 GCGGTGACCCCAAGCTGTGAGCCGACCTGCTGCTCTCACTAAGAGTGTGCGGGCT 1121
Db 781 CACATTTGATACATGCTGATGTGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
Qy 1122 CATATGATGTGCTGTGCGGAGCGCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1181

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QY 841 TGGCGCGCTGTGATGATAGCAGCGCAAGTTGCCGTCGTCACCGCAATACCTACTTT 900
Db 1182 TGGCGGTCGTCTTCTTTGTCGCACTGTTTACCTTCTCCAGGACCACTGAGC 1241
QY 901 GTCCAGAAATGCACTGCTCATATACCGAGCCATATACAGACATCGAATG 955
Db 1242 ACGCAAGACTGCAATGTTTCTATCTATCCGCGCATATTAAGGGTCATTCGATG 1296

RESULT 15

US-10-104-966-13
; Sequence 13, Application US/10104966
; Patent No. 6680059
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg
; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: TRIPEP.23AUSC1
; CURRENT APPLICATION NUMBER: US/10/104,966
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/705,547
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 9416
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hepatitis C virus sequence
US-10-104-966-13

Query Match 53.8%; Score 514.6; DB 3; Length 9416;
Best Local Similarity 71.1%; Pred. No. 3.3e-149;
Matches 679; Conservative 1; Mismatches 275; Indels 0; Gaps 0;

QY 1 ATGAGCACAAATCTTAAACCTCAAGAAAACTTAAAGAAACATTAACCGTCCGACAG 60
Db 342 ATGAGCAAGAAATCTTAAACCTCAAGAAAACTTAAAGAAACATTAACCGTCCGACAG 401
QY 61 GACGTTAGTCCCGGGGCGGGCGAGATCGTTGGCGGAGTTTACTTGTCCGCGACAG 120
Db 402 GACGTCAGGTTCCCGGGGCGGGCGAGATCGTTGGCGGAGTTTACTTGTCCGCGACAG 461
QY 121 GCGCCAGGTTGGTGTGCGCGCGCAAGAAAGACTTCTGAACGATCCAGCCAGCGTGA 180
Db 462 GCGCCATATTTGGGTGTGCGCGCGCAAGAAAGACTTCTGAACGATCCAGCGTGA 521
QY 181 AGGCGCCAGCCCATTCCTCAAAAGATGGCGCGCACTGGCAAGTCTTGGGGAAGTTCAGGA 240
Db 522 AGAGCTCAGCTATCCCAAGGCAAGTGGGCCGAGGCAAGCACTGGGCTCAGGCCGCG 581
QY 241 TACCTTGGCCCGGTGTAAGGGAAGAGGCGCTCGGTCAGGGTGGCTCGTCCGCC 300
Db 582 TACCTTGGCCCGGTGTAAGGGAAGAGGCGCTCGGTCAGGGTGGCTCGTCCGCC 641
QY 301 CGGGCTCTCGCCCTCGTGGGCGCCAAAGCAACCCCGGCAAGGTCAAGCAATTGGGT 360
Db 642 CGTGGCTCTCGGCTAGCTGGGCGCCCAAGACCCCGGCGTAAAGTTCGGCAATTGGGT 701
QY 361 AAGGTATGATACCTCTCAAGTGTGCTTTTGGCGAAGCTTCAATGAGGTATACCTGTGCTC 420
Db 702 AAGGTATGATACCTCTCAAGTGTGCTTTTGGCGAAGCTTCAATGAGGTATACCTGTGCTC 761
QY 421 GCGCGCCCTGTGGGCGGGGTGGCGAGAGCCCTCGCGCAATGGCGTGGGGTCTGGAAGAC 480
Db 762 GCGCGCCCTGTGGGCGGGGTGGCGAGAGCCCTCGCGCAATGGCGTGGGGTCTGGAAGAC 821
QY 481 GGGATTAATATGCAACAGGGAATTTGCCCGGTTGCTCTTTTCTATCTTCTTGCTGCT 540

Db 822 GCGTGAACATATGCAACAGGGAACCTTCCGTGTGCTCTTCTATCTTCTTCTGCGC 881
QY 541 CTCTGTCTTTATACACCGTGGCCGCTGTCCCATACAGGTTAAGAACACACCACTTC 600
Db 882 CTGCTCTTGTGCTGACTGTGCGCGCTTACGCTTACCAAGTGGCAATTCCTCGGGCTT 941
QY 601 TACATGCGCACTAATGACTGTGCAATGACAGCATGCTTGGAGCTCAGGAGCGCGT 660
Db 942 TACATGCAACCAATGATGCTTACCTGAGTGTGTGTATGAGAGCGCGCATGCAATC 1001
QY 661 CTCAGTTCCTGAGTGTCTCCCTGTGAGAGGTCAAGTATATGAACTTCTGTGACA 720
Db 1002 CTCACACTCGGGGTGTGTCTTGTGCTTCCGAGAGGTAAAGCTTCAAGTGTGAGT 1061
QY 721 GCGGTCTCGCCCAACGTTGTGAGCCGACCTGTGTCTCTCACTAAGGTCTGCGGGCT 780
Db 1062 GCGGTGACCCCGCGGTGGCGCACAGGAGCGGAACTCCCAACAGCAGCTTCAAGT 1121
QY 781 CACATTGATACCAATGATGATGTCGCGCACCTCTGTCTGCTTACATATAGGAGACTTA 840
Db 1122 CATATGATCTGCTTGTGCGGAGCGCACCTCTGTCTGCGCCTTACATGAGGAGACTG 1181
QY 841 TGGCGCGCTGTGATGATAGCAGCGCAAGTTGCCGTGTCTCACCGCAATACATCTTT 900
Db 1182 TGGCGGTCGTCTTCTTGTGTGATCACTGTTTACCTTCTTCCAGGCACTGAGC 1241
QY 901 GTCCAGAAATGCAAGTCTCATATACCGAGCCATATACAGACATCGAATG 955
Db 1242 ACGCAAGACTGCAATGTTTCTATCTATCCGCGCATATTAAGGGTCATTCGATG 1296

Search completed: January 11, 2006, 04:37:47
Job time : 239.834 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-19
Perfect score: 447
Sequence: 1 gacggggaatcatgcacac.....aggatcgaatgttccatc 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues
Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
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9: /cgn2_6/ptodata/1/ina/BACKFLIP2.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 447 | 100.0 | 447 | 3 | US-08-836-075A-19 |
| 2 | 300.4 | 67.2 | 957 | 3 | US-08-836-075A-17 |
| 3 | 289.4 | 64.7 | 1195 | 3 | US-08-836-075A-75 |
| 4 | 288.4 | 64.5 | 579 | 3 | US-08-836-075A-143 |
| 5 | 284.4 | 63.6 | 957 | 3 | US-09-878-281A-15 |
| 6 | 273.2 | 61.1 | 447 | 3 | US-08-836-075A-23 |
| 7 | 272.6 | 61.0 | 9589 | 2 | US-07-925-695-1 |
| 8 | 272.6 | 61.0 | 9589 | 2 | US-07-925-695-2 |
| 9 | 257.8 | 57.7 | 9511 | 2 | US-07-925-695-6 |
| 10 | 257.8 | 57.7 | 9511 | 2 | US-07-925-695-7 |
| 11 | 226.4 | 50.6 | 356 | 3 | US-08-836-075A-25 |
| 12 | 221.6 | 49.6 | 576 | 2 | US-08-086-428B-27 |
| 13 | 221.6 | 49.6 | 576 | 2 | US-08-468-570-27 |
| 14 | 221.6 | 49.6 | 576 | 2 | US-08-290-665A-27 |
| 15 | 221.6 | 49.6 | 576 | 3 | US-08-466-601A-27 |
| 16 | 221.6 | 49.6 | 576 | 6 | PCT-US95-10398-27 |
| 17 | 219.6 | 49.1 | 576 | 2 | US-08-086-428B-28 |
| 18 | 219.6 | 49.1 | 576 | 2 | US-08-468-570-28 |
| 19 | 219.6 | 49.1 | 576 | 2 | US-08-290-665A-28 |
| 20 | 219.6 | 49.1 | 576 | 3 | US-08-466-601A-28 |
| 21 | 219.6 | 49.1 | 576 | 6 | PCT-US95-10398-28 |
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| 23 | 216.8 | 48.5 | 576 | 2 | US-08-086-428B-26 |
| 24 | 216.8 | 48.5 | 576 | 2 | US-08-468-570-26 |

| | | | | | | |
|----|-------|------|-----|---|-------------------|-------------------|
| 25 | 216.8 | 48.5 | 576 | 2 | US-08-290-665A-26 | Sequence 26, Appl |
| 26 | 216.8 | 48.5 | 576 | 3 | US-08-466-601A-26 | Sequence 26, Appl |
| 27 | 216.8 | 48.5 | 576 | 6 | PCT-US95-10398-26 | Sequence 26, Appl |
| 28 | 215.2 | 48.1 | 333 | 2 | US-08-634-797-26 | Sequence 26, Appl |
| 29 | 215 | 48.1 | 576 | 2 | US-08-086-428B-29 | Sequence 29, Appl |
| 30 | 215 | 48.1 | 576 | 2 | US-08-468-570-29 | Sequence 29, Appl |
| 31 | 215 | 48.1 | 576 | 2 | US-08-290-665A-29 | Sequence 29, Appl |
| 32 | 215 | 48.1 | 576 | 3 | US-08-466-601A-29 | Sequence 29, Appl |
| 33 | 215 | 48.1 | 576 | 6 | PCT-US95-10398-29 | Sequence 29, Appl |
| 34 | 213 | 47.7 | 333 | 2 | US-08-634-797-24 | Sequence 24, Appl |
| 35 | 201.8 | 45.1 | 333 | 2 | US-08-634-797-21 | Sequence 21, Appl |
| 36 | 200.2 | 44.8 | 333 | 2 | US-08-634-797-31 | Sequence 31, Appl |
| 37 | 196.4 | 43.9 | 576 | 2 | US-08-086-428B-34 | Sequence 34, Appl |
| 38 | 196.4 | 43.9 | 576 | 2 | US-08-468-570-34 | Sequence 34, Appl |
| 39 | 196.4 | 43.9 | 576 | 2 | US-08-290-665A-34 | Sequence 34, Appl |
| 40 | 196.4 | 43.9 | 576 | 3 | US-08-466-601A-34 | Sequence 34, Appl |
| 41 | 196.4 | 43.9 | 576 | 6 | PCT-US95-10398-34 | Sequence 34, Appl |
| 42 | 184.6 | 41.3 | 576 | 2 | US-08-086-428B-33 | Sequence 33, Appl |
| 43 | 184.6 | 41.3 | 576 | 2 | US-08-468-570-33 | Sequence 33, Appl |
| 44 | 184.6 | 41.3 | 576 | 2 | US-08-290-665A-33 | Sequence 33, Appl |
| 45 | 184.6 | 41.3 | 576 | 3 | US-08-466-601A-33 | Sequence 33, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-19
Sequence 19, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 26 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET ID NO: INNS: 004
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO


```

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

```

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Query Match 64.7%; Score 289.4; DB 3; Length 1195;
Best Local Similarity 77.0%; Pred. No. 1.1e-73;
Matches 344; Conservative 3; Mismatches 100; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGAAATCTGCTGTTCTTTCTATCTTCTGTTG 60
DB 716 GACGGGTAATATATGCAACAGGAAATCTGCTGTTCTTTCTATCTTCTGTTG 775
QY 61 GCTTTCTGTTGTCACCGTCTGTCCTGTCCTGTCAGGTTAAGAACCAATAC 120
DB 776 GCTTTCTGTTGTCACCGTCTGTCCTGTCCTGTCAGGTTAAGAACCAATAC 835
QY 121 ATGATACATGCAACCAATGATCTGTCACCAACAGATCATCTGGCAATGACAGGCG 180
DB 836 ACATACATGTCATTAACGATCTGTCACCAACAGATCATCTGGCAATGACAGGCG 895
QY 181 GTGCTTATGTTCTGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTG 240
DB 896 GTGCTTATGTTCTGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTG 955
QY 241 ATACCGGTCACTCCCAACGTCGTGTGACCAAGCCGCGCTCTCACTAAGGGCTTGG 300
DB 956 ATTCACATGTCACCGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 1015
QY 301 ACCGACATGTCACCAATGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 360
DB 1016 TCCGACATGTCACCAATGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 1075
QY 361 GTGTCGCGCGGATGATGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 420
DB 1076 GTATGTCGCGCGGATGATGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 1135
QY 421 TTTTCCCAAGATGTCATGTTCTATC 447
DB 1136 TTTTCCCAAGATGTCATGTTCTATC 1162

```

```

RESULT 4
US-08-836-075A-15
Sequence 15, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

```

```

APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-15

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Query Match 64.5%; Score 288.4; DB 3; Length 579;
Best Local Similarity 77.6%; Pred. No. 1.6e-73;
Matches 346; Conservative 0; Mismatches 100; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGAAATCTGCTGTTCTTTCTATCTTCTGTTG 60
DB 100 GACGGGTAATATATGCAACAGGAAATCTGCTGTTCTTTCTATCTTCTGTTG 159
QY 61 GCTTTCTGTTGTCACCGTCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 120
DB 160 GCTTTCTGTTGTCACCGTCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 219
QY 121 ATGATACATGCAACCAATGATCTGTCACCAACAGATCATCTGGCAATGACAGGCG 180
DB 220 GCTTATATGCAACCAATGATCTGTCACCAACAGATCATCTGGCAATGACAGGCG 279
QY 181 GTGCTTATGTTCTGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 240
DB 280 GTGCTTATGTTCTGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 339
QY 241 ATACCGGTCACTCCCAACGTCGTGTGACCAAGCCGCGCTCTCACTAAGGGCTTGG 300
DB 340 ATCCGATCTCGCCCAACATAGCGGTGAGCAAACTGTGTCCTGTCACCAAGGAGCTGG 399
QY 301 ACCGACATGTCACCAATGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 360
DB 400 GACGATGATGTCCTGTCGTGATGTCCTGTCCTGTCCTGTCCTGTCCTGTCCTGTC 459

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| Qy | Db | Qy | Db |
|--|---|----------------------------|-------------------------------|
| 36 | 460 | 421 | 520 |
| GTGTGTGGCGCGGAGTAAAGTGTGTCAAGTTGTCATTTGTCTGGCGGCAATCACAC | GTGTGGCGCGCGAGTGAATAGCTGCACAGCGCTTTCATGTGTGGCACCAAGGCCATTAC | TTTTCCAGGATTTGCAATTGTTCCAT | TTTGCTCCAGGATATGCAATTGCTTCCAT |
| 420 | 519 | 446 | 545 |

RESULT 5

```

US-09-878-281A-143
; Sequence 143, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and treatment
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

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| | | | | |
|-----------------------|-----------------|--------------------|-----------|-------------|
| Query Match | 63.6% | Score 284.4; | DB 3; | Length 957; |
| Best Local Similarity | 77.4%; | Pred. No. 2.7e-72; | | |
| Matches 345; | Conservative 0; | Mismatches 101; | Indels 0; | Gaps 0 |

QY 1 GACGGGGGAAATTTATGCAACAGGGGAATGCGCTGGTGTCTCTTTCTCTATCTTTCTTTG 60
Db 478 GACGGGATTAACCTATATGCAACAGGGAACTTGGCCGGTGTCTCTTTCTCTATCTTTATTG 537
QY 61 GCTCTTCTGTCTTGTGTCACCGTGCCTGTCTCTGCGCAGATTAAAGAACCACTAGC 120
Db 538 GCCCTGTATCTTTGTATCATCTGTGCGGGTCTCCGGCTTCCAGGTCAAGAACCAAGCAGAC 597
QY 121 ATGTACATGGCAACCAATGACTGTTCCAACAACAGATCATCTTGGCAAAATGCAGGGCGCG 180
Db 598 TCTTACATGGTAAACCAATGACTGCGAGAACAGTACATCTCTGCACTCAGGGATGCT 657
QY 181 GTGCTTCAATGTTCTCTGAAATGTTGCCGTGTGATGGTCAGAGGCATTAATGCCGGTCTGG 240
Db 658 GTTCTTCAAGTCCCGGGGTGTCTCCCTTGTAGAGAAAGGGCAATATCCCGCTGTTGG 717
QY 241 ATACCGGTACTCCCAACGTGGCTGTGAACCAAGCCCGCGCCCTCTCAATGAGGGGCTTGGCG 300
Db 718 ATACCGGTTTGGCCCAATATAGCTGTGAGCCAACTGGTGGCCTTAACCAAGGGCCTGGGG 777
QY 301 ACGCAGATTGAGACCATGCTGTATGTGCTGTAAGCTCTGTTCGTGACCTTAATCGGGGAC 360
Db 778 ACGCAGATTGAGAACATCATTTGCAATCCGTTAGCTTTTGTCTGTCCCTGTACATAGAGAC 837
QY 361 GTGTGTGGCGCGGTGATGATAGCTGCTCAGGTTGTATTTGTCTGCGCGCAACATCAAC 420
Db 838 CTGTGTGGCGCGGTATGTGGCTTCTCAAGTCTTCAATCATCTGCGCCCAAGATCATAG 897
QY 421 TTTTCCAGAGATTGCAATTTTCCAT 446
Db 898 TTTGTCCAGAGACTGCAACTGTTCCAT 923

RESULT 6

US-08-836-075A-23
Sequence 23. Application US/08836075A
Patent No 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

```

1  TITLE OF INVENTION:  AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
2  TITLE OF INVENTION:  AGENTS
3  NUMBER OF SEQUENCES:  207
4  CORRESPONDENCE ADDRESS:
5  ADDRESSEE:  ARNOLD, WHITE & DURKEE
6  STREET:  P.O. BOX 4433
7  CITY:  HOUSTON
8  STATE:  TEXAS
9  COUNTRY:  USA
10 ZIP:  77210-4433
11
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE:  floppy disk
14 COMPUTER:  IBM PC compatible
15 OPERATING SYSTEM:  PC-DOS/MS-DOS
16 SOFTWARE:  Microsoft Word 6.0 / ASCII text output
17
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER:  US/08/836,075A
20 FILING DATE:  21 Apr 1997
21
22 PRIOR APPLICATION DATA:
23 APPLICATION NUMBER:  PCT/EP95/04155
24 FILING DATE:  23 Oct 1995
25
26 PRIOR APPLICATION DATA:
27 APPLICATION NUMBER:  EP 9487016.9
28 FILING DATE:  21 Oct 1994
29
30 PRIOR APPLICATION DATA:
31 APPLICATION NUMBER:  EP 95870076.7
32 FILING DATE:  28 Jun 1995
33
34 ATTORNEY/AGENT INFORMATION:
35 NAME:  KAMMERER, PATRICIA A.
36 REGISTRATION NUMBER:  29,775
37 REFERENCE/DOCKET NUMBER:  INNS:004
38 INFORMATION FOR SEQ. ID NO:  23:
39
40 SEQUENCE CHARACTERISTICS:
41 LENGTH:  447 base pairs
42 TYPE:  nucleic acid
43 STRANDEDNESS:  single
44 TOPOLOGY:  linear
45
46 MOLECULE TYPE:  CDNA
47
48 HYPOTHETICAL:  NO
49
50 ANTI-SENSE:  NO
51
52 US-08-836-075A-23

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| | | | | |
|---------------------------|-------|--------------------|-----------|-------------|
| Query Match | 61.1% | Score 273.2; | DB 3; | Length 447; |
| Best Local Similarity | 75.8% | Pred. No. 3.5e-69; | | |
| Matches 338; Conservative | 0; | Mismatches 108; | Indels 0; | Gaps 0 |

| | | | |
|----|-----|---|-----|
| OY | 1 | GACGGGAGTAATTATGCAACAGGGAACTGCGCTGGTGTCTTTTCTCTATCTTCTGTGTTG | 60 |
| | | | |
| | | | |
| | | | |
| Db | 1 | GACGGGATTAACACGCAACAGGGAATCTGCCCGGTTGCTCTTTTCTATCTTCTGTGTTG | 60 |
| | | | |
| | | | |
| | | | |
| OY | 61 | GCCTCTCTGCTCTTGGTCAACGGGCTGTCTCTGCGCGGACGGTTAAGAACACAGATAC | 120 |
| | | | |
| | | | |
| | | | |
| Db | 61 | GCCTGTCTATCTGTCTCACTGTGCGGGGTCCGTGCGAGGTCAAGAAACACAGCAC | 120 |
| | | | |
| | | | |
| | | | |
| OY | 121 | ATGTACATGGCAACCAATAGCTGTTCACAAACAGACATCATCTGGCAAAATGACGGGCGG | 180 |
| | | | |
| | | | |
| | | | |
| Db | 121 | TCTTATATGGTGACCAATGATTTGCTCAAAACAGACATTTGTCTGGACGTTAAGATGCT | 180 |
| | | | |
| | | | |
| | | | |
| OY | 181 | GTCCTTCATGTTCTTGGATGTGTCCCGTGTGAGTTGACGGGCAATTAAGTCCCGGTCTGG | 240 |
| | | | |
| | | | |
| | | | |
| Db | 181 | GTCCTTCACGTCCTCTGGATGTTCCTCAATGTAGAGGACCAAAATCAAGTCTCGGTCTGG | 240 |
| | | | |
| | | | |
| | | | |
| OY | 241 | ATATCCGGTACATCCCAAGGTGGCTGTGAACCAAGCCCGGCGCCCTACATAGGAGGCTTGG | 300 |
| | | | |
| | | | |
| | | | |
| Db | 241 | ATATCCTGTGACACCCCAATGTGGCGGTGAGCCAACTTGGCGGCTCACACAGGGGTTTGG | 300 |
| | | | |
| | | | |
| | | | |
| OY | 301 | ACGCACATTGACACCAATCGTGAATGGTCGTACGCTCTGTTGTGCACTTCATCATCGGGAC | 360 |
| | | | |
| | | | |
| | | | |
| Db | 301 | ACGCACATTGACACCAATCGTGTGCGTGTGTACCGTCTGCTCAGCTTTGTATGTGGCGAC | 360 |
| | | | |
| | | | |
| | | | |
| OY | 361 | GTCGTGGCGCGGTATGATAGCTGCTCAGGTGTTCATTTGTCTCGCCGCAACATCAAC | 420 |
| | | | |
| | | | |
| | | | |
| Db | 361 | TTCTGGCGCGCAATGATGTTGGTCTCTCAATTTTCAAGATCTCCCTCAGACACACATTC | 420 |
| | | | |
| | | | |
| | | | |

Qy 421 TTTCCAGATTCGATTTTCAT 446
Db 421 TTGCTCCAGATTCGACTGCTCGAT 446

RESULT 7

US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WU1 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-1

Query Match 61.0%; Score 272.6; DB 2; Length 9589;
Best Local Similarity 57.7%; Pred. No. 1.6e-68;
Matches 258; Conservative 80; Mismatches 109; Indels 0; Gaps 0;

Qy 1 GACGGGTAATTAATGCAACAGGAGATCTGCTGCTTCTTCTATCTTCTGTTG 60
Db 818 GACGGGTAATTAATGCAACAGGAGATCTGCTGCTTCTTCTATCTTCTGTTG 60
Qy 61 GCTCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 878 GCTCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Qy 121 ATGTAATGGAACCAATGATGTTGCAACAGGAGATCTGCTGCTTCTGCTGCTG 180
Db 938 GGTCAATGGAACCAATGATGTTGCAACAGGAGATCTGCTGCTTCTGCTGCTG 180
Qy 181 GTGCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 997 GTGCTTCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240

Db 998 GUCCUCCAGCUCGCCGGGUGCGUCCGUGCGAGAAAGUGGGAUAUACUUCUGUGCG 1057
Qy 241 ATTACGGTCACTCCCAACGTCGCTGGAACACGCGCGGCGCTCACTAGAGGCTTGG 300
Db 1058 AUAACGGUCCUACCAAGUUGGCGGUGCAAGCGCGCGCGCCUACGACGAGGCUUACGG 1117
Qy 301 ACGACATTTGACACCATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db 1118 ACGACATTTGACACCATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Qy 361 GTGCTGCGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 1178 GTGCTGCGCGGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Qy 421 TTTCCAGATTCGATTTTCATC 447
Db 1238 TTGCTCCAGATTCGACTGCTCGAT 1264

RESULT 8

US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WU1 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-2

Query Match 61.0%; Score 272.6; DB 2; Length 9589;
Best Local Similarity 75.6%; Pred. No. 1.6e-68;
Matches 338; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

Qy 1 GACGGGTAATTAATGCAACAGGAGATCTGCTGCTTCTTCTATCTTCTGTTG 60

```

Db      818 GACGGGGTATTTTGAACAGGAACTTACCCGGTTCCTTTCTATCTTCTG 877
Qy      61 GCTTTTCTGTTTGTGACCGCTGTCTCTCCGTTAGAGAACACAGTACC 120
Db      878 GCCCTGCTGCTTCATCAACACCCCGTCTCCCTGCGAAGAAACATCATGACC 937
Qy      121 ATGACATGGACCAATGACTGTTCCAAACAAGCATCTGAGCAATGACAGGCGG 180
Db      938 GGCATCATGTCGACCAACGACTGACCAATGATGATTCCTGCACTCAGGCTGCT 997
Qy      181 GTGCTCATGTTCTGTGATGTGTCCTGTTGAGTTGACAGGCAATAGTCCGGTGTG 240
Db      998 GTCTCCACGTCCTCCGGGTGCTCCGTCGAGAAAGGAGAAATATCTCGGTGCTG 1057
Qy      241 ATACCGGTCACTCCCAAGTGTGTAACACGCGCGCTCTCACTAGAGGCTTGG 300
Db      1058 ATACCGGTCTCAAGAAATGTGCGGTGACAGCCGCGCTCAAGAGGCTTACGG 1117
Qy      301 ACGCAATGACACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db      1118 ACGCAATGACACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 1177
Qy      361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Db      1178 CTGTGCGGTGAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1237
Qy      421 TTTTCCAGATGCAATGTTTCATC 447
Db      1238 TTTGTGCAAGACTGCAATGTTTCATC 1264

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RESULT 9

US-07-925-695-6

Sequence 6, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Weillacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/87-48009

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

TELEX: WUI 64470

```

; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-6

```

Query Match 57.7%; Score 257.8; DB 2; Length 9511;
 Best Local Similarity 53.0%; Pred. No. 3e-64;
 Matches 237; Conservative 93; Mismatches 117; Indels 0; Gaps 0;

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Qy      1 GACGGGGTAAATTATGCAACAGGAAATCTGCTGTTGCTTTCTATCTTCTGTTG 60
Db      819 GACGGGAUAAUUAACCAACAGGAAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 878
Qy      61 GCTTTTCTGTTTGTGACCGCTGTCTCTCCGTTAGAGAACACAGTACC 120
Db      879 GCUCUCUCUGCAUGCGUCACARUGCAUGUCUGCAUGGAAUUAUUAUUAUUAUUA 938
Qy      121 ATGACATGCAACCAATGACTGTTCCAAACAAGCATCTGAGCAATGACAGGCGG 180
Db      939 AGCUACUACGCGCAUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 998
Qy      181 GTGCTCATGTTCTGTGATGTGTCCTGTTGAGTTGACAGGCAATAGTCCGGTGTG 240
Db      999 GUUCCUACUUCUCUGAUGCGUCCCAUUGUAUUAUUAUUAUUAUUAUUAUUAUUA 1058
Qy      241 ATACCGGTCACTCCCAAGTGTGTAACACGCGCGCTCTCACTAGAGGCTTGG 300
Db      1059 AUAACAAGUAAACACCCACACGCGGCGUGGAAACACCGCGGUGGCAUCUGAC 1118
Qy      301 ACGCAATGACACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db      1119 ACACAGGUCACACUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1178
Qy      361 GTGTGTGCGCGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 420
Db      1179 GUUGGCGGGGCGUGAUGAUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1238
Qy      421 TTTTCCAGATGCAATGTTTCATC 447
Db      1239 UUAACCCAGAGUGGCAACUGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1265

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RESULT 10

US-07-925-695-7

Sequence 7, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Weillacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-7

Query Match 57.7%; Score 257.8; DB 2; Length 9511;
 Best Local Similarity 72.7%; Pred. No. 3e-64;
 Matches 325; Conservative 5; Mismatches 117; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCGTGTGCTCTTCTCTATCTCTGTTG 60
 DB 819 GACGGGTAATATATGCAACAGGGAATTTACCGGTGCTCTTCTATCTCTGTTG 878
 QY 61 GCTCTTCTGTTGTCACCGTGCCTGTCCTGCGTGAAGTTAAGAACACCACTAC 120
 DB 879 GCTCTTCTGTCATCGTCACATGTCCTGTCGTCGTCGTCGTCGTCGTCGTCGTC 938
 QY 121 ATGTACATGCGAACCAATGATCTGTTCCAAACAGCATCATCTGGCAATGCAAGGCG 180
 DB 939 AGCTACTACGCGCACTAATGATGTCCTCAAAACAGCATCACTGTCAGCTCAGTACG 998
 QY 181 GTGCTTATGTTCTGATGTCGCGTGTGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
 DB 999 GTTTCATCTCTCTGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1058
 QY 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCCCTCACTAGGGGCTTGCG 300
 DB 1059 ATACAAATGACACCCBAAGTGGCTGTGAACACCGCGGTGCGCTCATCGTGAAGCTCG 1118
 QY 301 ACGCAATGACACCAATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 360
 DB 1119 ACAACGTCGACATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1178
 QY 361 GTGTCGCGCGGTGATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 420
 DB 1179 GTGTCGCGCGGTGATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 1238
 QY 421 TTTTCCAGATGCAATGTTCCATC 447
 DB 1239 TTTCACCAAGTCACTGTTCCATC 1265

RESULT 11
 US-08-836-075A-25
 Sequence 25, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEBERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DUNKER
 STREET: P.O. BOX 4433
 CITY: HOUSTON

STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 356 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-25

Query Match 50.6%; Score 226.4; DB 3; Length 356;
 Best Local Similarity 77.2%; Pred. No. 1.1e-55;
 Matches 275; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

QY 1 GACGGGTAATATATGCAACAGGGAATCTGCGTGTGCTCTTCTCTATCTCTGTTG 60
 DB 1 GACGGGTAATATATGCAACAGGGAATCTGCGTGTGCTCTTCTCTATCTCTGTTG 60
 QY 61 GCTCTTCTGTTGTCACCGTGCCTGTCCTGCGTGAAGTTAAGAACACCACTAC 120
 DB 61 GCTCTTCTGTTGTCACCGTGCCTGTCCTGCGTGAAGTTAAGAACACCACTAC 120
 QY 121 ATGTACATGCGAACCAATGATCTGTTCCAAACAGCATCATCTGGCAATGCAAGGCG 180
 DB 121 TCTTACATGTCACCAATGATCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 180
 QY 181 GTGCTTATGTTCTGATGTCGCGTGTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
 DB 181 GTGCTTATGTTCTGATGTCGCGTGTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 240
 QY 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCCCTCACTAGGGGCTTGCG 300
 DB 241 ATACCGGTCACTCCCAACGTGCTGTGAACCAAGCCGCGCCCTCACTAGGGGCTTGCG 300
 QY 301 ACGCAATGACACCAATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 356
 DB 301 ACGCAATGACACCAATGATGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 356

RESULT 12
 US-08-086-428B-27
 Sequence 27, Application US/08086428B
 Patent No. 5514539
 GENERAL INFORMATION:
 APPLICANT: BURK, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEBUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE

```
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/086,428B
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 27:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORIGINAL SOURCE:
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: T4
? US-08-086-428B-27

Query Match          49.6%; Score 221.6; DB 2; Length 576;
Best Local Similarity 77.3%; Pred. No. 3.1e-54;
Matches 269; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 100 CAGGTTAAGAACACAGTACATGATGACGCAACCAATGACTGTTCCACAAAGACATC 159
DB 4 CAAGTGAAGAACACACTAACGACTACATGATGACCAACGACTGTTCAATGACAGCATC 63

QY 160 ATCTGGCAATGCAAGGGCGCGGTGCTCATGTTCTTGATGTGTCCGTTGAGTTGCAG 219
DB 64 ACTTGGCAGCTTCAGGCGCGGTGCTCTCCACGTCCTCCGGGTGTGTCCTGCGAGAAACG 123

QY 220 GGCAATAGTCCCGGTGCTGATACCGGTCACTCCCAACGTGGCTGTGAACCAAGCCGCG 279
DB 124 GGAATATATCTCGGTGCTGATACCGGTTCACCAACGTGGCGGTGCGAGCCGCGC 183

QY 280 GCCCTCACTAGAGGGCTTGGAGCGACGCAATTGACACCATCGTATGATGCTGCTACGCTGT 339
DB 184 GCCCTCAGCAGGGCTTGGAGCGACGCAATTGACATGATGATGATGCTGCTGCGCACGCTGCG 243

QY 340 TCTGCACTTACATCGGAGCGTGTGTGGCGCGGTGATGATGATGCTGCTCAGGTTGTCAAT 399
DB 244 TCTGCTCTTTACGTGGGGAACCTCTGCGGCGGGGTGATGCTGCGAGCCAGATGTTTCATC 303

QY 400 GTCTGCGCGCAACATCAACAATTTCCTCCAGATTTGCAATGTTGCATC 447
DB 304 GTCTGCGCGCAACATCACTGTTGTGTGCAAGATGCAATTGCTTATC 351

RESULT 13
US-08-570-27
? Sequence 27, Application US/08468570
? Patent No. 5871962
? GENERAL INFORMATION:
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? APPLICANT: BORK, J., MILLER, R.H. AND
? APPLICANT: PURCELL, R.H.
? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESSES:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/468,570
? FILING DATE: 6-JUN-1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/086,428
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 424
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070US1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 27:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORIGINAL SOURCE:
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: T4
? US-08-468-570-27

Query Match          49.6%; Score 221.6; DB 2; Length 576;
Best Local Similarity 77.3%; Pred. No. 3.1e-54;
Matches 269; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 100 CAGGTTAAGAACACAGTACATGATGACGCAACCAATGACTGTTCCACAAAGACATC 159
DB 4 CAAGTGAAGAACACACTAACGACTACATGATGACCAACGACTGTTCAATGACAGCATC 63

QY 160 ATCTGGCAATGCAAGGGCGCGGTGCTCATGTTCTTGATGTGTCCGTTGAGTTGCAG 219
DB 64 ACTTGGCAGCTTCAGGCGCGGTGCTCTCCACGTCCTCCGGGTGTGTCCTGCGAGAAACG 123

QY 220 GGCAATAGTCCCGGTGCTGATACCGGTCACTCCCAACGTGGCTGTGAACCAAGCCGCGC 279
DB 124 GGAATATATCTCGGTGCTGATACCGGTTCACCAACGTGGCGGTGCGAGCCGCGC 183

QY 280 GCCCTCACTAGAGGGCTTGGAGCGACGCAATTGACACCATCGTATGATGCTGCTACGCTGT 339
DB 184 GCCCTCAGCAGGGCTTGGAGCGACGCAATTGACATGATGATGATGCTGCTGCGCACGCTGCG 243

QY 340 TCTGCACTTACATCGGAGCGTGTGTGGCGCGGTGATGATGATGCTGCTCAGGTTGTCAAT 399
DB 244 TCTGCTCTTTACGTGGGGAACCTCTGCGGCGGGGTGATGCTGCGAGCCAGATGTTTCATC 303

QY 400 GTCTGCGCGCAACATCAACAATTTCCTCCAGATTTGCAATGTTGCATC 447
DB 304 GTCTGCGCGCAACATCACTGTTGTGTGCAAGATGCAATTGCTTATC 351
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Db      124  GAAATACATCTCGTGTGATACCGATTACCCAAACGTGGCCGTGCGCAGCCCGC 183
QY      280  GCCCTCACTAGGGGCTTGGCGACGACATTGACACATCGTAGGTGCTACGCTGT 339
Db      184  GCCCTCAGCAGGAGGCTTGGGACGACATTGATGATGGTTGATGCCGCCACGCTGC 243
QY      340  TCTGCACTTACATCGGGGACGTGTGTGGCGGGTGATGATAGCTGCTCAGGTTGTCATT 399
Db      244  TCTGCTCTTTACGTGGGGACCTCTGCGGCGGGGTGATGCTCGCAGCCAGATGTTCAATC 303
QY      400  GTCTGCGCGACATCACTTTTCCAGGATTGCAATTGTTCAATC 447
Db      304  GTCTGCGCGACATCACTGTTGTGCAAGACTGCAATTGCTCTATC 351

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Search completed: January 11, 2006, 04:37:48
 Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.0414 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-21
310
Sequence: 1 atgagcacaaatcctaacc.....ctgtccctcgagctctc 310

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/1 COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
6: /cgn2_6/ptodata/1/ina/PTUS COMB.seq: *
7: /cgn2_6/ptodata/1/ina/PP COMB.seq: *
8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 310 | 100.0 | 310 | 3 | US-08-836-075A-21 |
| 2 | 282.8 | 91.2 | 573 | 2 | US-08-290-665A-134 |
| 3 | 282.8 | 91.2 | 573 | 6 | PCT-US95-10398-134 |
| 4 | 282.8 | 91.2 | 957 | 3 | US-09-878-281A-143 |
| 5 | 278 | 89.7 | 510 | 3 | US-08-441-971-66 |
| 6 | 278 | 89.7 | 510 | 3 | US-08-221-653-66 |
| 7 | 278 | 89.7 | 510 | 3 | US-08-442-144A-66 |
| 8 | 278 | 89.7 | 957 | 3 | US-08-441-970-66 |
| 9 | 278 | 89.7 | 957 | 3 | US-08-836-075A-17 |
| 10 | 274.4 | 88.5 | 310 | 3 | US-08-836-075A-13 |
| 11 | 271.6 | 87.6 | 549 | 3 | US-08-441-971-65 |
| 12 | 271.6 | 87.6 | 549 | 3 | US-08-221-653-65 |
| 13 | 271.6 | 87.6 | 549 | 3 | US-08-442-144A-65 |
| 14 | 271.6 | 87.6 | 549 | 3 | US-08-441-970-65 |
| 15 | 271.6 | 87.6 | 573 | 2 | US-08-290-665A-125 |
| 16 | 271.6 | 87.6 | 573 | 2 | US-08-290-665A-126 |
| 17 | 271.6 | 87.6 | 573 | 6 | PCT-US95-10398-125 |
| 18 | 271.6 | 87.6 | 573 | 6 | PCT-US95-10398-126 |
| 19 | 271.6 | 87.6 | 1195 | 3 | US-08-836-075A-75 |
| 20 | 270 | 87.1 | 573 | 2 | US-08-290-665A-128 |
| 21 | 270 | 87.1 | 573 | 6 | PCT-US95-10398-128 |
| 22 | 268.4 | 86.6 | 9589 | 2 | US-07-925-695-1 |
| 23 | 268.4 | 86.6 | 9589 | 2 | US-07-925-695-2 |
| 24 | 262 | 84.5 | 573 | 2 | US-08-290-665A-127 |

| | | | | | | |
|----|-------|------|------|---|--------------------|-------------------|
| 25 | 262 | 84.5 | 573 | 2 | US-08-290-665A-132 | Sequence 132, App |
| 26 | 262 | 84.5 | 573 | 2 | US-08-290-665A-133 | Sequence 133, App |
| 27 | 262 | 84.5 | 573 | 6 | PCT-US95-10398-137 | Sequence 127, App |
| 28 | 262 | 84.5 | 573 | 6 | PCT-US95-10398-132 | Sequence 132, App |
| 29 | 262 | 84.5 | 573 | 6 | PCT-US95-10398-133 | Sequence 133, App |
| 30 | 258.8 | 83.5 | 369 | 2 | US-08-081-072-14 | Sequence 14, App |
| 31 | 258.8 | 83.5 | 369 | 2 | US-08-449-093A-14 | Sequence 14, App |
| 32 | 258.8 | 83.5 | 573 | 6 | PCT-US95-10398-131 | Sequence 131, App |
| 33 | 257.2 | 83.0 | 573 | 2 | US-08-290-665A-129 | Sequence 129, App |
| 34 | 257.2 | 83.0 | 573 | 2 | US-08-290-665A-130 | Sequence 130, App |
| 35 | 257.2 | 83.0 | 573 | 6 | PCT-US95-10398-130 | Sequence 130, App |
| 36 | 257.2 | 83.0 | 573 | 6 | PCT-US95-10398-130 | Sequence 130, App |
| 37 | 257.2 | 83.0 | 573 | 6 | PCT-US95-10398-130 | Sequence 130, App |
| 38 | 253.6 | 81.8 | 9511 | 2 | US-07-925-695-7 | Sequence 7, App |
| 39 | 253.6 | 81.8 | 9511 | 2 | US-07-925-695-7 | Sequence 7, App |
| 40 | 239.6 | 77.3 | 573 | 3 | US-09-194-949A-5 | Sequence 5, App |
| 41 | 236.4 | 76.3 | 669 | 2 | US-08-143-579A-3 | Sequence 3, App |
| 42 | 236.4 | 76.3 | 669 | 2 | US-08-143-579A-3 | Sequence 3, App |
| 43 | 236.4 | 76.3 | 669 | 3 | US-08-454-928-7 | Sequence 7, App |
| 44 | 234.8 | 75.7 | 462 | 3 | US-08-854-531-1 | Sequence 1, App |
| 45 | 234.8 | 75.7 | 462 | 6 | PCT-US95-13552-1 | Sequence 1, App |

ALIGNMENTS

RESULT 1
US-08-836-075A-21
; Sequence 21, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-21

Query Match 100.0%; Score 310; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 7, 9e-90;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAACACTTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAACACTTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGCGGTGCGCAAGATCGTTGGCGAGTATCTTGTTCGCGCAGG 120
DB 61 GACGTTAAGTTCCCGGCGGTGCGCAAGATCGTTGGCGAGTATCTTGTTCGCGCAGG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGGCAAGAAACCTCCGACCGTCCGACGACGTTGGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGGCAAGAAACCTCCGACCGTCCGACGACGTTGGG 180
QY 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTTGAGGACGTCCAGGA 240
DB 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTTGAGGACGTCCAGGA 240
QY 241 TACCCCTGGCCCCCTGTATGGGAACGAGGCGCTTGTTGGGAGATGCTTGTCCCT 300
DB 241 TACCCCTGGCCCCCTGTATGGGAACGAGGCGCTTGTTGGGAGATGCTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

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RESULT 2

US-08-290-665A-134
Sequence 134, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R. H. AND
APPLICANT: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeapiens
INDIVIDUAL ISOLATE: S83
US-08-290-665A-134

Query Match 91.2%; Score 282.8; DB 2; Length 573;
Best Local Similarity 94.5%; Pred. No. 5, 8e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

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QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAACACTTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACAAAGAAACACTTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGCGGTGCGCAAGATCGTTGGCGAGTATCTTGTTCGCGCAGG 120
DB 61 GACGTTAAGTTCCCGGCGGTGCGCAAGATCGTTGGCGAGTATCTTGTTCGCGCAGG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGGCAAGAAACCTCCGACCGTCCGACGACGTTGGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGGCAAGAAACCTCCGACCGTCCGACGACGTTGGG 180
QY 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTTGAGGACGTCCAGGA 240
DB 181 AGGCGCCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTTGAGGACGTCCAGGA 240
QY 241 TACCCCTGGCCCCCTGTATGGGAACGAGGCGCTTGTTGGGAGATGCTTGTCCCT 300
DB 241 TACCCCTGGCCCCCTGTATGGGAACGAGGCGCTTGTTGGGAGATGCTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

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RESULT 3

PCT-US95-10398-134
Sequence 134, Application PC/TUS9510398
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R. H. AND
APPLICANT: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MORGAN & PINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S83
PCT-US95-10398-134

Query Match 91.2%; Score 282.8; DB 6; Length 573;
Best Local Similarity 94.5%; Pred. No. 5.8e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAACTCAAGAAAAACCAAAAGAACTAACCGCGCCGACAG 60
|
DB 1 ATGAGCAAAATCTCTAACTCAAGAAAAACCAAAAGAACTAACCGCGCCGACAG 60
|
QY 61 GAGCTTAAGTTCCTCCGCGCGTGGCCAGATCGTTGCGGAGTATCTTGTGCGCGAGG 120
|
DB 61 GAGCTTAAGTTCCTCCGCGCGTGGCCAGATCGTTGCGGAGTATCTTGTGCGCGAGG 120
|
QY 121 GGGCCCCGGTGGTGTGCGCGGACGAGAAAACTTCCGACGCTCCAGCCAGCTGGG 180
|
DB 121 GGGCCCCGGTGGTGTGCGCGGACGAGAAAACTTCCGACGCTCCAGCCAGCTGGG 180
|
QY 181 AGGCGCCAGCGCCATCTCTAAAGATCGCGCTCCACTGCGCAAACTCGGGGAGCTCCAGGA 240
|
DB 181 AGGCGCCAGCGCCATCTCTAAAGATCGCGCTCCACTGCGCAAACTCGGGGAGCTCCAGGA 240
|
QY 241 TACCTTGGCCCTGTATGGAACGAGGGCTTGTGTTGGCAGAGATGCTTGTCCCT 300
|
DB 241 TACCTTGGCCCTGTATGGAATGAGGGCTTGTGTTGGCAGAGATGCTTGTCCCT 300
|
QY 301 CGAGGCTCTC 310
|
DB 301 CGGCGTCTC 310
|

RESULT 4
US-09-878-281A-143
; Sequence 143, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

Query Match 91.2%; Score 282.8; DB 3; Length 957;
Best Local Similarity 94.5%; Pred. No. 7.3e-81;
Matches 293; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTCTAACTCAAGAAAAACCAAAAGAACTAACCGCGCCGACAG 60
|
DB 1 ATGAGCAAAATCTCTAACTCAAGAAAAACCAAAAGAACTAACCGCGCCGACAG 60
|
QY 61 GAGCTTAAGTTCCTCCGCGCGTGGCCAGATCGTTGCGGAGTATCTTGTGCGCGAGG 120
|

DB 61 GAGCTTAAGTTCCTCCGCGCGTGGCCAGATCGTTGCGGAGTATCTTGTGCGCGAGG 120
|
QY 121 GGGCCCCGGTGGTGTGCGCGGACGAGAAAACTTCCGACGCTCCAGCCAGCTGGG 180
|
DB 121 GGGCCCCGGTGGTGTGCGCGGACGAGAAAACTTCCGACGCTCCAGCCAGCTGGG 180
|
QY 181 AGGCGCCAGCGCCATCTCTAAAGATCGCGCTCCACTGCGCAAACTCGGGGAGCTCCAGGA 240
|
DB 181 AGGCGCCAGCGCCATCTCTAAAGATCGCGCTCCACTGCGCAAACTCGGGGAGCTCCAGGA 240
|
QY 241 TACCTTGGCCCTGTATGGAACGAGGGCTTGTGTTGGCAGAGATGCTTGTCCCT 300
|
DB 241 TACCTTGGCCCTGTATGGAATGAGGGCTTGTGTTGGCAGAGATGCTTGTCCCT 300
|
QY 301 CGAGGCTCTC 310
|
DB 301 CGGCGTCTC 310
|

RESULT 5
US-08-441-971-66
; Sequence 66, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-Am Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 510 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: arg6
US-08-441-971-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;

SEQUENCE CHARACTERISTICS:
LENGTH: 510 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: arg6
US-08-442-144A-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACATAACCGCCGACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACATAACCGCCGACAG 60
QY 61 GACGTTAAGTTCCTGAGCGGTGCGCAGATCGTTGGCGAGTATATTGTTGCCGCGAG 120
DB 61 GACGTTAAGTTCCTGAGCGGTGCGCAGATCGTTGGCGAGTATATTGTTGCCGCGAG 120
QY 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAAACTTCCGACGCTCCAGCGAG 180
DB 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAAACTTCCGACGCTCCAGCGAG 180
QY 181 AGCGGCGAGCCATCCCTTAAGATCGGCGCTCCAGTGGCAAAATCTGCGGAGCGTCCAGGA 240
DB 181 AGCGGCGAGCCATCCCTTAAGATCGGCGCTCCAGTGGCAAAATCTGCGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCTGATGAGGAAAGAGGCTCTGCGCTGGCGAGGCTGCTGCTCCCT 300
DB 241 TACCTTTGGCCCTGATGAGGAAAGAGGCTCTGCGCTGGCGAGGCTGCTGCTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 8
US-08-441-970-66
Sequence 66, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKTEL
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 510 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: arg6
US-08-441-970-66

Query Match 89.7%; Score 278; DB 3; Length 510;
Best Local Similarity 93.5%; Pred. No. 1.9e-79;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACATAACCGCCGACAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAAAACCAAGAAACATAACCGCCGACAG 60
QY 61 GACGTTAAGTTCCTGAGCGGTGCGCAGATCGTTGGCGAGTATATTGTTGCCGCGAG 120
DB 61 GACGTTAAGTTCCTGAGCGGTGCGCAGATCGTTGGCGAGTATATTGTTGCCGCGAG 120
QY 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAAACTTCCGACGCTCCAGCGAG 180
DB 121 GGGCCCCGCTGGTGGTGGCGCGAGCGAGAAAACTTCCGACGCTCCAGCGAG 180
QY 181 AGCGGCGAGCCATCCCTTAAGATCGGCGCTCCAGTGGCAAAATCTGCGGAGCGTCCAGGA 240
DB 181 AGCGGCGAGCCATCCCTTAAGATCGGCGCTCCAGTGGCAAAATCTGCGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCTGATGAGGAAAGAGGCTCTGCGCTGGCGAGGCTGCTGCTCCCT 300
DB 241 TACCTTTGGCCCTGATGAGGAAAGAGGCTCTGCGCTGGCGAGGCTGCTGCTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 9
US-08-836-075A-17
Sequence 17, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-17

Query Match 89.7%; Score 278; DB 3; Length 957;
Best Local Similarity 93.5%; Pred. No. 2.5e-79;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAACTAAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAACTAAACCGCGCCACAG 60
QY 61 GACGTTAAGTCCCGGCGGTGGCGCAGATCGTTGGCGAGTAACTTGTGGCGCGCAGG 120
DB 61 GACGTTAAGTCCCGGCGGTGGCGCAGATCGTTGGCGAGTAACTTGTGGCGCGCAGG 120
QY 121 GGGCCCCGGTGGGTGTGGCGCGCAGAGAAACCTTCCGAAACGCTCCACGCGCAGG 180
DB 121 GGGCCCCAGTTGGGTGTGGCGCGCAGAGAAACCTTCCGAAACGCTCCACGCGCAGG 180
QY 181 AGGCGCAGCCATCCCTAAAGATCGCGCTCACTGGCAAACTCTGGGGAAGTCCAGGA 240
DB 181 AGGCGCAGCCATCCCAAAAGATCGCGCGCCACTGGCAAGTCTTGGGGAAGTCCAGGA 240
QY 241 TACCTTGGCCCTGTATGGAACGAGGCGCTTGGTGGGAGATGGCTTGTCCCT 300
DB 241 TACCTTGGCCCTGTATGGAACGAGGCGCTTGGTGGGAGATGGCTTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGGGGCTCTC 310

RESULT 10
US-08-836-075A-13
Sequence 13, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-13

Query Match 88.5%; Score 274.4; DB 3; Length 310;
Best Local Similarity 92.6%; Pred. No. 2.3e-78;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAACTAAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAACTAAACCGCGCCACAG 60
QY 61 GACGTTAAGTCCCGGCGGTGGCGCAGATCGTTGGCGAGTAACTTGTGGCGCGCAGG 120
DB 61 GACGTTAAGTCCCGGCGGTGGCGCAGATCGTTGGCGAGTAACTTGTGGCGCGCAGG 120
QY 121 GGGCCCCGGTGGGTGTGGCGCGCAGAGAAACCTTCCGAAACGCTCCACGCGCAGG 180
DB 121 GGGCCCCAGTTGGGTGTGGCGCGCAGAGAAACCTTCCGAAACGCTCCACGCGCAGG 180
QY 181 AGGCGCAGCCATCCCTAAAGATCGCGCTCACTGGCAAACTCTGGGGAAGTCCAGGA 240
DB 181 AGGCGCAGCCATCCCTAAAGATCGGAGNGCCACTGGCAGGTCTGGGGAAGTCCAGGA 240
QY 241 TACCTTGGCCCTGTATGGAACGAGGCGCTTGGTGGGAGATGGCTTGTCCCT 300
DB 241 TATCCCTGGCCCTGTATGGAACGAGGCGCTGGCTGGGAGATGGCTCTGTCCCCC 300
QY 301 CGAGGCTCTC 310
DB 301 CGAGGCTCTC 310

RESULT 11
US-08-441-971-65
Sequence 65, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: WOLF, Greenfield & Sacks, P.C.
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

```

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-May-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-441-971-65

Query Match      87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
QY 181 AGGCGCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTGAGGAGCGTCCAGGA 240
DB 181 AGGCGCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTGAGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCTGTATGGAACGAGAGCGCTTGTGGCGAGAGTGGCTTTGTCCCT 300
DB 241 TATCTTTGGCCCTGTATGGAATGAGAGGTCTCGGCTGGGAGGGGTGGCTCTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 12
US-08-221-653-65
; Sequence 65, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:

```

```

ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-221-653-65

Query Match      87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
DB 1 ATGAGCAAAATCTTAAACCTCAAGAAAAACCAAAAGAAACACTAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
DB 61 GACGTTAAGTTCCCGGGCGGTGCGCAGATCGTTGCGGAGTATACCTTGTGCGCGCAG 120
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
QY 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
DB 121 GGGCCCCGGTGGGTGTGCGCGCAGACGAGAAAACTTCCGAACGGTCCCAAGCAGTGG 180
QY 181 AGGCGCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTGAGGAGCGTCCAGGA 240
DB 181 AGGCGCAGCCATCCCTAAAGATCGGCGCTCACTGCAAAATCTGAGGAGCGTCCAGGA 240
QY 241 TACCTTTGGCCCTGTATGGAACGAGAGCGCTTGTGGCGAGAGTGGCTTTGTCCCT 300
DB 241 TATCTTTGGCCCTGTATGGAATGAGAGGTCTCGGCTGGGAGGGGTGGCTCTGTCCCT 300
QY 301 CGAGGCTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 13
US-08-442-144A-65
; Sequence 65, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:

```

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-442-144A-65

Query Match 87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTTAACCTCAAGAAACCAAAACCACTAACCGCGCCCAAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAACCAAAACCACTAACCGCGCCCAAG 60
QY 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
DB 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
QY 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
DB 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
QY 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
DB 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
QY 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
DB 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
QY 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
DB 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
QY 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
DB 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
QY 241 TACCTTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
DB 241 TACCTTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
QY 301 CGAGGCTCTC 310
DB 301 CGTGGCTCTC 310

RESULT 14
US-08-441-970-65
Sequence 65, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 110
US-08-441-970-65

Query Match 87.6%; Score 271.6; DB 3; Length 549;
Best Local Similarity 92.3%; Pred. No. 2.3e-77;
Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1 ATGAGCAAAATCTTAACCTCAAGAAACCAAAACCACTAACCGCGCCCAAG 60
DB 1 ATGAGCAAAATCTTAACCTCAAGAAACCAAAACCACTAACCGCGCCCAAG 60
QY 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
DB 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
QY 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
DB 61 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 120
QY 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
DB 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
QY 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
DB 121 GACGTTAAGTTCCTCCGCGGCGGCGGAGATCGTTGCGGAGTATTAATTGTCGCGGCAAG 180
QY 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
DB 181 AGGCGCCAGCCCATCTTAAGATCGGCGCTCACTGCGCAATCTTGCGGAGAGTCCAGAG 240
QY 241 TACCTTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
DB 241 TACCTTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300

Db 241 TATCCTTGCCCCGTATATGGAATGAGGGTCTCGAGTGGCGAGGATGCTCTGTCCTCC 300
 QY 301 CGAGGCTCTC 310
 Db 301 CGAGGCTCTC 310

RESULT 15
 US-08-290-665A-125
 ; Sequence 125, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 125:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: T4
 US-08-290-665A-125

Query Match 87.6%; Score 271.6; DB 2; Length 573;
 Best Local Similarity 92.3%; Pred. No. 2.3e-77;
 Matches 286; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATGAGCACAATCTTAACCTCAAGAAAAACCAAGAAACACTAAACCGCCGCCACAG 60
 Db 1 ATGAGCACAATCTTAACCTCAAGAAAAACCAAGAAACACTAAACCGCCGCCACAG 60
 QY 61 GACGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGAGTATCTTGTGCGCGCAAG 120
 Db 61 GACGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGAGTATCTTGTGCGCGCAAG 120
 QY 121 GGGCCCGGTTGGGTGGCGCGGAGCAAGGAAACCTCCGAAAGGTCACGCGCAGCGTGGG 180
 Db 121 GGGCCCGGTTGGGTGGCGCGGAGCAAGGAAACCTCCGAAAGGTCACGCGCAGCGTGGG 180
 QY 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAATCTTGCGGAGCGTCCAGGA 240
 Db 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAATCTTGCGGAGCGTCCAGGA 240

Db 181 AGGCGCCAGCCCATCCCTAAAGATCGGCGCTCACTGGCAATCTTGCGGAGGAAAAACAGGA 240
 QY 241 TACCTTGCCCGCTGATATGGAACGAGGGCTTGTGGGACAGATGCTCTGTCCCTT 300
 Db 241 TACCTTGCCCGCTGATATGGAACGAGGGCTTGTGGGACAGATGCTCTGTCCCTT 300
 QY 301 CGAGGCTCTC 310
 Db 301 CGAGGCTCTC 310

Search completed: January 11, 2006, 04:37:49
 Job time : 78.0414 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-23

Perfect score: 447

Sequence: 1 gacggataactacgcgaac.....aggatgcactgcgcgata 447

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 447 | 100.0 | 447 | 3 | US-08-836-075A-23 |
| 2 | 304.6 | 68.1 | 957 | 3 | US-09-878-281A-143 |
| 3 | 273.2 | 61.1 | 447 | 3 | US-08-836-075A-19 |
| 4 | 269.4 | 60.3 | 957 | 3 | US-08-836-075A-17 |
| 5 | 255.8 | 57.2 | 579 | 3 | US-08-836-075A-15 |
| 6 | 251.2 | 56.2 | 1195 | 3 | US-08-836-075A-75 |
| 7 | 250.8 | 56.1 | 9589 | 2 | US-07-925-695-1 |
| 8 | 250.8 | 56.1 | 9589 | 2 | US-07-925-695-2 |
| 9 | 248.8 | 55.7 | 356 | 3 | US-08-836-075A-25 |
| 10 | 242.8 | 54.3 | 9511 | 2 | US-07-925-695-6 |
| 11 | 242.8 | 54.3 | 9511 | 2 | US-07-925-695-7 |
| 12 | 204 | 45.6 | 333 | 2 | US-08-634-797-25 |
| 13 | 194.8 | 43.6 | 576 | 2 | US-08-086-428B-29 |
| 14 | 194.8 | 43.6 | 576 | 2 | US-08-468-570-29 |
| 15 | 194.8 | 43.6 | 576 | 2 | US-08-290-665A-29 |
| 16 | 194.8 | 43.6 | 576 | 3 | US-08-466-601A-29 |
| 17 | 194.8 | 43.6 | 576 | 6 | PCT-US95-10398-29 |
| 18 | 192.6 | 43.1 | 576 | 2 | US-08-086-428B-34 |
| 19 | 192.6 | 43.1 | 576 | 2 | US-08-468-570-34 |
| 20 | 192.6 | 43.1 | 576 | 2 | US-08-290-665A-34 |
| 21 | 192.6 | 43.1 | 576 | 3 | US-08-466-601A-34 |
| 22 | 192.6 | 43.1 | 576 | 6 | PCT-US95-10398-34 |
| 23 | 187.4 | 41.9 | 333 | 2 | US-08-634-797-26 |
| 24 | 187 | 41.8 | 576 | 2 | US-08-086-428B-27 |

| | | | | | | |
|----|-------|------|-----|---|--------------------|--------------------|
| 25 | 187 | 41.8 | 576 | 2 | US-08-468-570-27 | Sequence 27, App1 |
| 26 | 187 | 41.8 | 576 | 2 | US-08-290-665A-27 | Sequence 27, App1 |
| 27 | 187 | 41.8 | 576 | 3 | US-08-466-601A-27 | Sequence 27, App1 |
| 28 | 187 | 41.8 | 576 | 6 | PCT-US95-10398-27 | Sequence 27, App1 |
| 29 | 186.4 | 41.7 | 333 | 2 | US-08-634-797-21 | Sequence 21, App1 |
| 30 | 186 | 41.6 | 576 | 2 | US-08-086-428B-28 | Sequence 28, App1 |
| 31 | 186 | 41.6 | 576 | 2 | US-08-468-570-28 | Sequence 28, App1 |
| 32 | 186 | 41.6 | 576 | 2 | US-08-290-665A-28 | Sequence 28, App1 |
| 33 | 186 | 41.6 | 576 | 3 | US-08-466-601A-28 | Sequence 28, App1 |
| 34 | 186 | 41.6 | 576 | 6 | PCT-US95-10398-28 | Sequence 28, App1 |
| 35 | 185.4 | 41.5 | 576 | 2 | US-08-086-428B-26 | Sequence 26, App1 |
| 36 | 185.4 | 41.5 | 576 | 2 | US-08-468-570-26 | Sequence 26, App1 |
| 37 | 185.4 | 41.5 | 576 | 2 | US-08-290-665A-26 | Sequence 26, App1 |
| 38 | 185.4 | 41.5 | 576 | 3 | US-08-466-601A-26 | Sequence 26, App1 |
| 39 | 185.4 | 41.5 | 576 | 6 | PCT-US95-10398-26 | Sequence 26, App1 |
| 40 | 185.2 | 41.4 | 574 | 3 | US-09-878-281A-120 | Sequence 120, App |
| 41 | 185.2 | 41.4 | 579 | 3 | US-09-878-281A-175 | Sequence 175, App1 |
| 42 | 179.4 | 40.1 | 333 | 2 | US-08-634-797-23 | Sequence 30, App1 |
| 43 | 178.8 | 40.0 | 576 | 2 | US-08-086-428B-30 | Sequence 30, App1 |
| 44 | 178.8 | 40.0 | 576 | 2 | US-08-468-570-30 | Sequence 30, App1 |
| 45 | 178.8 | 40.0 | 576 | 2 | US-08-290-665A-30 | Sequence 30, App1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-23
; Sequence 23, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 23:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-23

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2,2e-141;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
DB 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
QY 61 GCCTTGCTATCTCTCTCACTGTGCGCGCTCCGCTGTGCAAGTCAAGACACAGCCAC 120
DB 61 GCCTTGCTATCTCTCTCACTGTGCGCGCTCCGCTGTGCAAGTCAAGACACAGCCAC 120
QY 121 TCTTATATGAGCAATGATGCTCAAGACAGCAATGCTCGGAGCTTAAGGATGCT 180
DB 121 TCTTATATGAGCAATGATGCTCAAGACAGCAATGCTCGGAGCTTAAGGATGCT 180
QY 181 GTGCTTCACTGCTCCGTGATGTTCATGTGAGAGGACCAAAATCAAGTCTCGCTGCG 240
DB 181 GTGCTTCACTGCTCCGTGATGTTCATGTGAGAGGACCAAAATCAAGTCTCGCTGCG 240
QY 241 ATACCTGTGACACCCCAATGTGCGGTGAGCCACCTGCGGCTTACACAGGAGTTCGCG 300
DB 241 ATACCTGTGACACCCCAATGTGCGGTGAGCCACCTGCGGCTTACACAGGAGTTCGCG 300
QY 301 ACGCAATGACACCAATGCTGCGCTGCTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 301 ACGCAATGACACCAATGCTGCGCTGCTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 361 TTCTGCGGCGCAAGTATGCTCTCAATTTTTCATGATCTCCCTCAGACACACATC 420
DB 361 TTCTGCGGCGCAAGTATGCTCTCAATTTTTCATGATCTCCCTCAGACACACATC 420
QY 421 TTGCTCCAGATTGCACTGCTCGATA 447
DB 421 TTGCTCCAGATTGCACTGCTCGATA 447

RESULT 2

US-09-878-281A-143
; Sequence 143; Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 957
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-143

Query Match 68.1%; Score 304.6; DB 3; Length 957;
Best Local Similarity 80.1%; Pred. No. 7.4e-93;
Matches 358; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 1 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 60
DB 478 GACGGGATAAATAAGCAAGGAAATCTGCCGGTTCCTCTTCTATCTTCTGCTG 537
QY 61 GCCTTGCTATCTCTCTCACTGTGCGCGCTCCGCTGTGCAAGTCAAGACACAGCCAC 120
DB 538 GCCTTGCTATCTCTCTCACTGTGCGCGCTCCGCTGTGCAAGTCAAGACACAGCCAC 597
QY 121 TCTTATATGAGCAATGATGCTCAAGACAGCAATGCTCGGAGCTTAAGGATGCT 180
DB 121 TCTTATATGAGCAATGATGCTCAAGACAGCAATGCTCGGAGCTTAAGGATGCT 180

DB 598 TCTTACATGTAACCAATGATGCTCCAGAACAGTAGATGCTTGAGAGCTCAAGGATGCT 657
QY 181 GTGCTTCACTGCTCCGTGATGTTCATGTGAGAGGACCAAAATCAAGTCTCGCTGCTG 240
DB 658 GTTCTTCACTGCTCCGTGATGTTCATGTGAGAGGACCAAAATCAAGTCTCGCTGCTG 717
QY 241 ATACCTGTGACACCCCAATGTGCGGTGAGCCACCTGCGCGCTTACACAGGAGTTCGCG 300
DB 718 ATACCGGTTTCGCGCAATATGAGCTGTGAGCCACCTGCTGCTTACCAAGGAGCTGCGG 777
QY 301 ACGCAATGACACCAATGCTGCGCTGCTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 778 ACGCAATGACACCAATGCTGCGCTGCTACCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837
QY 361 TTCTGCGGCGCAAGTATGCTCTCAATTTTTCATGATCTCCCTCAGACACACATC 420
DB 838 CTGCTGCGCGGATGATGCTGCTTCAAGTCTTCAATATCTCGGCCACAGCATTAAG 897
QY 421 TTGCTCCAGATTGCACTGCTCGATA 447
DB 898 TTGCTCCAGATTGCACTGCTCGATA 924

RESULT 3

US-08-836-075A-19
; Sequence 19; Application US/08836075A
; Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MABTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 447 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULAR TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-19

Query Match 61.1%; Score 273.2; DB 3; Length 447;
 Best Local Similarity 75.8%; Pred. No. 2.2e-82;
 Matches 338; Conservative 0; Mismatches 108; Indels 0; Gaps 0;

QY 1 GACGGATTAACGACGACGAGGAAATCTGCGGCTGCTCTTTCTATCTTCTGCTG 60
 DB 1 GACGGGATTAATATGACAGGAAATCTGCTGCTCTTTCTATCTTCTGCTG 60
 QY 61 GCGTGTATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 DB 61 GCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 QY 121 TCTTATATGATGACCAATGATGCTCAACAGCAGCATTTGCTGCGAGCTTAAGATGCT 180
 DB 121 ATGATACATGCAACCATGATGCTGCTCAACAGCAGCATTTGCTGCGAGCTTAAGATGCT 180
 QY 181 GTGCTTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 181 GTGCTTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 QY 241 ATACCTGTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 241 ATACCTGTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 QY 301 ACCGACATTTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 301 ACCGACATTTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 QY 361 TTCTGCGGCGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 361 TTCTGCGGCGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 QY 421 TTGCTCCAGATTTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 446
 DB 421 TTGCTCCAGATTTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 446

RESULT 4

US-08-836-075A-17
 ; Sequence 17, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/EP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 95870076.7
 ; FILING DATE: 28 Jun 1995
 ; ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ. ID NO: 17:

SEQUENCE CHARACTERISTICS:
 LENGTH: 957 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-17

Query Match 60.3%; Score 269.4; DB 3; Length 957;
 Best Local Similarity 75.2%; Pred. No. 6.6e-81;
 Matches 336; Conservative 0; Mismatches 111; Indels 0; Gaps 0;

QY 1 GACGGATTAACGACGACGAGGAAATCTGCGGCTGCTCTTTCTATCTTCTGCTG 60
 DB 478 GACGGATTAATATGACAGGAAATCTGCGGCTGCTCTTTCTATCTTCTGCTG 537
 QY 61 GCGTGTATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 DB 61 GCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 QY 121 TCTTATATGATGACCAATGATGCTCAACAGCAGCATTTGCTGCGAGCTTAAGATGCT 180
 DB 121 TCTTATATGATGACCAATGATGCTCAACAGCAGCATTTGCTGCGAGCTTAAGATGCT 180
 QY 181 GTGCTTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 DB 181 GTGCTTACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 QY 241 ATACCTGTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 DB 241 ATACCTGTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 QY 301 ACCGACATTTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 DB 301 ACCGACATTTGACACCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 QY 361 TTCTGCGGCGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 DB 361 TTCTGCGGCGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 QY 421 TTGCTCCAGATTTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 447
 DB 421 TTGCTCCAGATTTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 447

RESULT 5

US-08-836-075A-15
 ; Sequence 15, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS

```

SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-15

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Query Match      57.2%; Score 255.8; DB 3; Length 579;
Best Local Similarity 72.9%; Pred. No. 2.1e-76;
Matches 326; Conservative 0; Mismatches 121; Indels 0; Gaps 0;

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QY 1 GACGGGATAAAGCTACGCAAGGGAATGCGCCGGTTCCTTTCTATCTTCTGCTG 60
DB 100 GACGGGATAAATTTATGNAAGGGAAGACTCCCTGGTTCCTTTCTATCTTCTGCTG 159
QY 61 GCCTTGCTATCTGTCTCACTGTGCGCGGCGTCCGCTGTGAGGTCAAGAACACGACGAC 120
DB 160 GCTCTTCTGTCTGTGTGTCACCGTGTGCTGTCTGTGCGTGTGAGGTCAAGAACACGACGAC 219
QY 121 TCTTATATGTGACCAATGATTTGCTCAAGACGACATTTCTGTGACGCTTAAGATGCT 180
DB 220 GCCATATATGGAACCAAGACGACGCTCCCAACACGACATGATGACCAATTTGAGACGCG 279
QY 181 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAAGTCTCGCTGCTG 240
DB 280 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAAGTCTCGCTGCTG 339
QY 241 ATACCTGTGACACCAATGTGCGCGTGAAGCAACCTGCGCGCTCACCAAGGGGTTTGGG 300
DB 340 ATCCGATCTGCGCCCAACATAGCCGTGAGCAAACTGGTGTCTCACCAAGGAGACTGGG 399
QY 301 ACGCAATTGACACCATGTGCGCTGTCTACCGTGTCTCAAGCTTTGTATGTGGGAC 360
DB 400 GCAAGCATTTGATGTGCGCTGTGATGTCCGACCCCTGTGCTGTGATGTGAGGAGAT 459
QY 361 TTTCGGCGCGAGATGTGATGTCTCTCAATTTTTCATGATCTCCCTCAGACCAACATC 420
DB 460 GTGTGCGCGCGAGATGTGATGTCTCTCAATTTTTCATGATCTCCCTCAGACCAACATC 519
QY 421 TTTCGTCAGAGATTGCAACTGTCTGATA 447
DB 520 TTTCGTCAGAGATTGCAACTGTCTGATA 546

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RESULT 6
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

```

```

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

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Query Match      56.2%; Score 251.2; DB 3; Length 1195;
Best Local Similarity 71.5%; Pred. No. 1.1e-74;
Matches 319; Conservative 4; Mismatches 123; Indels 0; Gaps 0;

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QY 1 GACGGGATAAAGCTACGCAAGGGAATGCGCCGGTTCCTTTCTATCTTCTGCTG 60
DB 716 GACGGGATAAAGCTATGAAACAGGGAACCTCCCGTGTCTTTCTATCTTCTTCTT 775
QY 61 GCCTTGCTATCTGTCTCACTGTGCGCGCGTCCGCTGTGAGGTCAAGAACACGACGAC 120
DB 776 GCTCTTCTGTCTGTGATTTACCGACGATTTCTGTGTGAAATCAAAAAACACAGGAAC 835
QY 121 TCTTATATGTGACCAATGATTTGCTCAACAGACGATGTCTGTGACGCTTTAAGATGCT 180
DB 836 ACATATACGTGTGACTAAGCATGTTCACAAACAGATCATCAGGAGCTTNNNNNGCG 895
QY 181 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAAGTCTCGCTGCTG 240
DB 896 GTGCTTACGTCCTCGATGTGTTCATGTGAGGAGGACCAAAATCAAGTCTCGCTGCTG 955
QY 241 ATACCTGTGACACCAATGTGCGCGTGAAGCAACCTGCGCGCTCACAGGGGTTTGGCG 300
DB 956 ATTCCAGTCAAGCCCAACATGATGAGCGGACCTGTGCTTCAACCAAGGTTTGGCA 1015
QY 301 ACGCAATTGACACCATGTGTGCGCTGTACCGTGTCTCAAGCTTTGTATGTGGGAC 360
DB 1016 TCGCAATGACACCAATGTGTGAGCGTCCGCAAACTTTTGTCTGCGCTTCAATGAGGAT 1075
QY 361 TTTCGCGCGCGAGATGTGATGTCTCTCAATTTTTCATGATCTCCCTCAGACCAACATC 420
DB 1076 GTATGTGCGCGAGATGATGATGCTGCGCAAGTGTGATGTCTGTGCGCGAGATCATC 1135

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QY 421 TTCGTCAGATTGCAACTGCTCGAT 446
 Db 1136 TTGTCCAGACTGTACTGTTTCAT 1161

RESULT 7

US-07-925-695-1
 ; Sequence 1, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; TITLE OF INVENTION: DETECTION SYSTEMS
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WUI 64470
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-1

Query Match 56.1%; Score 250.8; DB 2; Length 9589;
 Best Local Similarity 53.8%; Pred. No. 4.9e-74;
 Matches 240; Conservative 84; Mismatches 122; Indels 0; Gaps 0;

QY 1 GACGGGATAACTACGCAACAGGGAATCTGCCGGTTGCTCTTTCTATCTTCTGCTG 60
 Db 818 GACGGGGUUAUUUUGACAACAGGGAACUUAACCGGUGUCUUCUUAACUUCUCUG 877
 QY 61 GCCTTGCTATCTGTCTCACTGTGCGCGCTCGCTGTGCAAGGTCAAGAACACCAAGCCAC 120
 Db 878 GCCCUGGUCGACACACACACCCCGUCUCCGCTCCCAAGUGAAGAACACACAGAAC 937
 QY 121 TCTATATGATGACCAATGATGCTCAACAGCAAGCATTTGCGGACGTTAAGATGCT 180
 Db 938 GGCUACUGGUGACCAACGACUACCAUAGUAGUACUUGGCAACUCCAGGCGUCU 997
 QY 181 GTGCTTACGTCCTCGATGTGTTCATGTGAGGACCAAAATCATGTCGCTGCTG 240

Db 998 GUUCUCCAGCCCGCGAGUCGUCGCCGUGAGAAAUGGGGAUAUAVUCUGGUCUG 1057
 QY 241 ATACTGTGACACCCATGTGCGCGAGCAACTGAGCGGCTGACCAAGGTTGCGG 300
 Db 1058 AUAACGGUCUACCAUUGGCGGUGACAGACCGCGGCGCCUACAGCAGGCGUACGG 1117
 QY 301 ACGCAATTGACACCATGCTTGCTGTGCTACCGTCTGCTCACTTTGATGTGGCGAC 360
 Db 1118 ACGCACAUUAGAUUGUUGAUUGUCGCGACGCTUCGUCGUCUUAACUGGGGAGAC 1177
 QY 361 TTCTGGGCGGCACTGATGTTGCTCTCAATTTTATGATCTCCCTCAGCACACATC 420
 Db 1178 CUCUGGUGGUGGUGAUGUCUGGACGCCAGAUUUGUUCUGGCGACGACACACUGG 1237
 QY 421 TTCGTCAGATTGCAACTGCTCGAT 446
 Db 1238 UUGUGCAGACUGCAUUGCUCU 1263

RESULT 8

US-07-925-695-2
 ; Sequence 2, Application US/07925695
 ; Patent No. 5428145
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; APPLICANT: NAKAMURA, Tetsuo
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 ; STREET: 1850 M Street, N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/925,695
 ; FILING DATE: 19920807
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 287402/91
 ; FILING DATE: 09-AUG-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 360441/91
 ; FILING DATE: 05-DEC-1991
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Wellacher, Robert G.
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-48009
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2811
 ; TELEFAX: (202) 659-1462
 ; TELEX: WUI 64470
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 9589 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-07-925-695-2

Query Match 56.1%; Score 250.8; DB 2; Length 9589;
 Best Local Similarity 72.6%; Pred. No. 4.9e-74;
 Matches 324; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 1 GACGGGATAACTACGCAACAGGGAATCTGCCGGTTGCTCTTTCTATCTTCTGCTG 60

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Db      818 GAGGGGGTATTTTGGACAGGAACTTACCGGTTGCTCTTTCTATCTTCTG 877
Qy      61 GCCTTGCTATCTGTCTCACTGTGCGCGCGCTGCTGCAAGAACACACCCAC 120
Db      878 GCCCTGCTGTCTCCTCATCAACACCGCGTCTCGCTGCCAAGTGAAGAACATCAGTACC 937
Qy      121 TCTTATATGAGTACCAATGATGTGCTCAAGACAGCAATGTCTGAGCTTAAGATGCT 180
Db      938 GGTACATGTGACCAACGACCTGCAACCAATGATGACATTTACCTGCACTCAGGCTGCT 997
Qy      181 GTGCTTCACTGCTCCCTGATGTGTTCATGTAGAGCAACAAATCACTGCTGCTG 240
Db      998 GTCTCCACGCTCCCGGGTGGCTCCCGTGCAGAAAGTGGGAATCATCTCGGTGCTGG 1057
Qy      241 ATACTGTGACACCAATGTGTGGCGGTGAGCCACCTGGCGGCTCACAGGGGTTTGGCG 300
Db      1058 ATACCGGTCTCAGGAATGTGGCGGTGACGACGCCCGCGCTCACAGGCTTAACGG 1117
Qy      301 ACCGACATTTGACACCATGTTGCCGTCTACCGCTGCTCAGCTTTGTATGTGGGCGAC 360
Db      1118 ACCGACATTTGACATGTTGTGTATGTCCGCGCTGCTGCTCTTTTACGTGGGAGAC 1177
Qy      361 TTCTGCGCGCAGTATGTGTCTCTCAATTTTTCATGATCTCCCTCAGACCAACATC 420
Db      1178 CTCTGCGGTGGGGTGTGATGCTTGACGCCACGATGTTCAATGTCTGCGCACAGCACTGG 1237
Qy      421 TTCTGCCAGATTTGCACTGCTCGAT 446
Db      1238 TTTGTGCAAGACTGCATTTGCTCAT 1263

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RESULT 9

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US-08-836-075A-25
; Sequence 25, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836.075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 356 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-25

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Query Match      55.7%; Score 248.8; DB 3; Length 356;
Best Local Similarity 81.2%; Pred. No. 3.8e-74;
Matches 289; Conservative 0; Mismatches 67; Indels 0; Gaps 0;

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Qy      1 GACGGGATAAATACAGCAAGAGGAATCTGCCGGTGGCTCTTTCTATCTTCTGCTG 60
Db      1 GACGGGATAAATACAGCAAGAGGAATCTGCCGGTGGCTCTTTCTATCTTCTGCTG 60
Qy      61 GCCTTGCTATCTGTCTCACTGTGCGCGCTGCTGCAAGTCAAGAACACACCCAC 120
Db      61 GCCTTGCTATCTGTCTCACTGTGCGCGCTGCTGCAAGTCAAGAACACACCCAC 120
Qy      121 TCTTATATGAGTACCAATGATTTGCTCAAGACAGCAATGTCTGAGCTTAAGATGCT 180
Db      121 TCTTATATGAGTACCAATGATTTGCTCAAGACAGCAATGTCTGAGCTTAAGATGCT 180
Qy      181 GTGCTTCACTGCTCCCTGATGTGTTCATGTAGAGGCAACAAATCACTGCTGCTG 240
Db      181 GTCTTCACTGCTCCCTGATGTGTTCCTGTGATGAGGAAGAACACACCTCCCTGCTG 240
Qy      241 ATACTGTGACACCAATGTGTGGCGGTGAGGCAACCTGGCGGCTCACAGGGGTTTGGCG 300
Db      241 ATACTGTGACACCAATGTGTGGCGGTGAGGCAACCTGGCGGCTCACAGGGGTTTGGCG 300
Qy      241 ATACCGGTCAACCCCTTAACATGCTGTGAGGCAACCTGGCGGCTTACCAAGGGGCTGG 300
Db      301 ACCGACATTTGACACCATGTTGCCGTCTACCGCTGCTCAGCTTTGTATGTGGG 356
Qy      301 ACCGACATTTGACACCATGTTGCCGTCTACCGCTGCTCAGCTTTGTATGTGGG 356

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RESULT 10

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US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B, HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925.695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.

```

REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-7

Query Match 54.3%; Score 242.8; DB 2; Length 9511;
 Best Local Similarity 52.5%; Pred. No. 2.5e-71;
 Matches 234; Conservative 86; Mismatches 126; Indels 0; Gaps 0;

QY 1 GACGGATAAATCTACGACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 60
 DB 819 GACGGATAAATCTACGACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 878
 QY 61 GCCTTGCTATCTGCTCTCTCTCTGCGGCTGCTGCTGCAAGTCAAGAACCCAGCCAC 120
 DB 879 GCCTTGCTATCTGCTCTCTCTCTGCGGCTGCTGCTGCAAGTCAAGAACCCAGCCAC 938
 QY 121 TCTTATATGTGACCAATGATGTGCTCAAAAGAGCAATGTGCTGAGCTTAAGAGTCT 180
 DB 939 AGCTACACGCGCAUAUAGUAGUCUCAAACACAGCAUCACCTGCGAGCTCAGACGCA 998
 QY 181 GTGCTTACGCTCCCTGATGTTGCTGAGGAGGACCAAAATCATGCTGCTGCTG 240
 DB 999 GUTUCUACUUCUCUGAGUGGUCUCCAUUGAGUAGUAGUAGUAGUAGUAGUAGUAGU 1058
 QY 241 ATACTGTGACACCAATGTTGCTGAGGAGGACCAATGTTGCTGAGGAGGAGGAGG 300
 DB 1059 AUAACAAGUACACCCRAAGUGGUCUGUAAACACCGGUGGUCUACUUGUAGUAGUAGU 1118
 QY 301 ACGCAATTTGACCAATGTTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
 DB 1119 ACGCAATTTGACCAATGTTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1178
 QY 361 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 420
 DB 1179 GUGUGCGGCGCGGAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGU 1238
 QY 421 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 446
 DB 1239 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 1264

RESULT 11
 US-07-925-695-7
 Sequence 7, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 APPLICANT: NAKAMURA, Tetsuo
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 TITLE OF INVENTION: DETECTION SYSTEMS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-7

Query Match 54.3%; Score 242.8; DB 2; Length 9511;
 Best Local Similarity 70.9%; Pred. No. 2.5e-71;
 Matches 316; Conservative 4; Mismatches 126; Indels 0; Gaps 0;

QY 1 GACGGATAAATCTACGACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 60
 DB 819 GACGGATAAATCTACGACAGGAAATCTGCGGTTGCTCTTTCTATCTTCTGCTG 878
 QY 61 GCCTTGCTATCTGCTCTCTCTCTGCGGCTGCTGCTGCAAGTCAAGAACCCAGCCAC 120
 DB 879 GCCTTGCTATCTGCTCTCTCTCTGCGGCTGCTGCTGCAAGTCAAGAACCCAGCCAC 938
 QY 121 TCTTATATGTGACCAATGATGTGCTCAAAAGAGCAATGTGCTGAGCTTAAGAGTCT 180
 DB 939 AGCTACACGCGCAUAUAGUAGUCUCAAACACAGCAUCACCTGCGAGCTCAGACGCA 998
 QY 181 GTGCTTACGCTCCCTGATGTTGCTGAGGAGGACCAAAATCATGCTGCTGCTG 240
 DB 999 GUTUCUACUUCUCUGAGUGGUCUCCAUUGAGUAGUAGUAGUAGUAGUAGUAGUAGU 1058
 QY 241 ATACTGTGACACCAATGTTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
 DB 1059 AUAACAAGUACACCCRAAGUGGUCUGUAAACACCGGUGGUCUACUUGUAGUAGUAGU 1118
 QY 301 ACGCAATTTGACCAATGTTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360
 DB 1119 ACGCAATTTGACCAATGTTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1178
 QY 361 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 420
 DB 1179 GUGUGCGGCGCGGAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGU 1238
 QY 421 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 446
 DB 1239 TTCTGCGGCGCAGATGTTGCTGCTCAATTTTCTGATGATGATGATGATGATGATGAT 1264

RESULT 12
 US-08-634-797-25
 Sequence 25, Application US/08634797
 Patent No. 5851759
 GENERAL INFORMATION:
 APPLICANT: WEINER, AMY J.
 TITLE OF INVENTION: HETEROIDUPLEX TRACKING ASSAY (HTA) FOR
 TITLE OF INVENTION: GENOTYPING HCV
 NUMBER OF SEQUENCES: 52

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Chiron Corporation
 ; STREET: 4560 Horton Street - R440
 ; CITY: Emeryville
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94608-2916
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/634,797
 ; FILING DATE: 19-APR-1996
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Hardin, Alisha A.
 ; REGISTRATION NUMBER: 33,895
 ; REFERENCE/DOCKET NUMBER: 1226,001
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (510) 601-3274
 ; TELEFAX: (510) 655-3542
 ; TELEX: N/A
 ; INFORMATION FOR SEQ ID NO: 25:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 333 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; US-08-634-797-25

Query Match 45.6%; Score 204; DB 2; Length 333;
 Best Local Similarity 75.9%; Pred. No. 5.9e-59;
 Matches 252; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 106 AAGAACACGAGCCCTCTTATATGATGACCAATGATGCTCAACACAGCATGCTGG 165
 DB 1 AAGAACACGAGCCCTCTTATATGATGACCAATGATGCTCAACACAGCATGCTGG 60
 QY 166 CAGCTTAGAGATGCTGCTTACGTCCTTGATGTTGCTTCATGTGAGAGCAAAAT 225
 DB 61 CAGCTTAGAGATGCTGCTTACGTCCTTGATGTTGCTTCATGTGAGAGCAAAAT 120
 QY 226 CAGTCTGCTGCTGGAATACCTGTACACCCCAATGTGCGCGAGACCAACTGGCGCTC 285
 DB 121 ACGTCTGCTGCTGGAATACCTGTACACCCCAATGTGCGCGAGACCAACTGGCGCTC 180
 QY 286 ACCGAGGGGTTTGGGAGACCATGACATGATGCTGCTGCTACGCTGCTCAGCT 345
 DB 181 ACCGAGGGGTTTGGGAGACCATGATGATGCTGCTGCTGCTGCTGCTGCTC 240
 QY 346 TTGTATGTGGGCGAATTCTGCGGCGCAGTGAATGTTGCTCTCAATTTTTCATGATCTC 405
 DB 241 CTCTATGTGGGCGAATGTTGCTGCGGCGCTGACGATGACCGCTGCTGCTGATGCTG 300
 QY 406 CCTAGACACCAATCTTGTCTCAGGATTGCA 437
 DB 301 CCACGACACCACTTTGTCTCAGGATTGCA 332

RESULT 13
 US-08-086-428B-29
 ; Sequence 29, Application US/08086428B
 ; Patent No. 5514539
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
 ; TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
 ; TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN

; TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 159
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/086,428B
 ; FILING DATE: 29-JUN-1993
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4070
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 29:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 576 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: 10
 ; US-08-086-428B-29

Query Match 43.6%; Score 194.8; DB 2; Length 576;
 Best Local Similarity 72.3%; Pred. No. 1.1e-55;
 Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

QY 97 GTGACAGTCAAGAACACGAGCCCTCTTATATGATGACCAATGATGCTCAACACAGCAGC 156
 DB 1 GTGACAGTCAAGAACACGAGTACCACTATATGATGACCAATGATGCTCAACACAGCAGC 60
 QY 157 ATTGTCTGGAGTTTAAGATGCTGTGCTTCAAGTCCCTGATGATGTTTTCATGTGAGAG 216
 DB 61 ATACTTGGCACTTGAAGGCTGTGCTTCAAGTCCCTGATGATGTTTTCATGTGAGAG 120
 QY 217 CACCAAAATCAGTCTGCTGCTGATACCTGTGACACCAATGTGACCGGACCAACT 276
 DB 121 GTGGAATATCATCTGCTGCTGATACCTGTGACACCAATGTGACCGGACCGGCT 180
 QY 277 GAGCGCGTCAACGAGGGGTTTGGGAGCGACATGACCAATGCTGCTGCTGCTGCTGCTC 336
 DB 181 GAGCGCGTCAACGAGGGGTTTGGGAGCGCTGACATGACATGATGCTGATGCTGCTGCTG 240
 QY 337 TGCTCAGCTTTGATGTGGCGAATTCTGCGGCGCAGTGAATGTTGCTCTCAATTTTTC 396
 DB 241 TGTCTCGCTCTTTAAGTGGGGAATTCTGCGGCGCAGTGAATGTTGCTCGACGCAAAATGTTTC 300
 QY 397 ATGATCTCCCTCAGACCAATCTTGTCTCAGGATTGCAACTGCTCGAT 446
 DB 301 ATTGTCTCGCGCGCACCACTGTTTGTGAGGAATGCAACTGCTCGAT 350

RESULT 14
 US-08-468-570-29
 ; Sequence 29, Application US/08468570
 ; Patent No. 5871962
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.

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? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 GENE
? TITLE OF INVENTION: OF 51 ISOLATES OF HEPATITIS C AND THE USE
? TITLE OF INVENTION: OF REAGENTS DERIVED FROM THESE SEQUENCES IN
? TITLE OF INVENTION: DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 159
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/468,570
? FILING DATE: 6-JUN-1995
? CLASSIFICATION: 424
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/086,428
? FILING DATE: 29-JUN-1993
? CLASSIFICATION: 424
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4070US1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 29:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: 10
? US-08-468-570-29

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Query Match      43.6%; Score 194.8; DB 2; Length 576;
Best Local Similarity 72.3%; Pred. No. 1.1e-55;
Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

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QY 97 GTGAGGTCAAGAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 156
DB 1 GTCCAAAGTAAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 60
QY 157 ATTGCTGGAGCTTAAGATGCTGCTTCAAGTCCCTGAGATGTTCCATGTGAGAG 216
DB 61 ATCACTTGGCAACTGAGGCTGGGCTCTCCAGCTTCCGGGTGTGTCCTCCAGAGAAA 120
QY 217 CACCAAAATAGTCTGCTGCTGTGATACCTGTGACACCAATGTGCGCGTGAAGCAA 276
DB 121 GTGGAAATACATCTCGGCTGTGATACCGGTCTCAACAAATGTGCGCGTGAAGCAA 180
QY 277 GGGGCGCTCACAGAGGGGTTGGGAGCGACATGACCAATGCTGCTGCTACACGTC 336
DB 181 GGGGCGCTCACAGAGGGGTTGGGAGCGACATGACCAATGCTGCTGCTACACGTC 240
QY 337 TGTCTAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGTGATGCTCTCAATTTTTC 396
DB 241 TGTCTAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGTGATGCTCTCAATTTTTC 300
QY 397 ATGATCTCCCTCAGCACCACTTTGCTCAAGATTGCACTGCTGAT 446
DB 301 ATGATCTCCCTCAGCACCACTTTGCTCAAGATTGCACTGCTGAT 350

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RESULT 15
US-08-290-665A-29
? Sequence 29, Application US/08290665A
? Patent No. 5882852
? GENERAL INFORMATION:
? APPLICANT: BURKE, J., MILLER, R.H. AND
? TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
? TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
? TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
? TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
? TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
? NUMBER OF SEQUENCES: 263
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: MORGAN & FINNEGAN
? STREET: 345 PARK AVENUE
? CITY: NEW YORK
? STATE: NEW YORK
? COUNTRY: USA
? ZIP: 10154
? COMPUTER READABLE FORM:
? MEDIUM TYPE: FLOPPY DISK
? COMPUTER: IBM PC COMPATIBLE
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: WORDPERFECT 5.1
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/290,665A
? FILING DATE: 15-AUG-1994
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: RICHARD W. BORK
? REGISTRATION NUMBER: 36,459
? REFERENCE/DOCKET NUMBER: 2026-4116
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (212) 758-4800
? TELEFAX: (212) 751-6849
? TELEX: 421792
? INFORMATION FOR SEQ ID NO: 29:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? ORGANISM: homosapiens
? INDIVIDUAL ISOLATE: US10
? US-08-290-665A-29

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Query Match      43.6%; Score 194.8; DB 2; Length 576;
Best Local Similarity 72.3%; Pred. No. 1.1e-55;
Matches 253; Conservative 0; Mismatches 97; Indels 0; Gaps 0;

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QY 97 GTGAGGTCAAGAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 156
DB 1 GTCCAAAGTAAACACACCACTCTTATATGCTGACCAATGATGCTCAACAGAGC 60
QY 157 ATTGCTGGAGCTTAAGATGCTGCTTCAAGTCCCTGAGATGTTCCATGTGAGAG 216
DB 61 ATCACTTGGCAACTGAGGCTGGGCTCTCCAGCTTCCGGGTGTGTCCTCCAGAGAAA 120
QY 217 CACCAAAATAGTCTGCTGCTGTGATACCTGTGACACCAATGTGCGCGTGAAGCAA 276
DB 121 GTGGAAATACATCTCGGCTGTGATACCGGTCTCAACAAATGTGCGCGTGAAGCAA 180
QY 277 GGGGCGCTCACAGAGGGGTTGGGAGCGACATGACCAATGCTGCTGCTACACGTC 336
DB 181 GGGGCGCTCACAGAGGGGTTGGGAGCGACATGACCAATGCTGCTGCTACACGTC 240
QY 337 TGTCTAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGTGATGCTCTCAATTTTTC 396
DB 241 TGTCTAGCTTTGATGTGGGCACTTCTGCGGCGCAGTGTGATGCTCTCAATTTTTC 300

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Fri Jan 20 09:52:38 2006

us-08-836-075b-23.mri

Page 10

Qy 397 ATGATCTCCCCTCAGCACCAATCTTCGTCAGGATTCGAACCTGCTGAT 446
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 Db 301 ATTGTTCGCGCGCCACCACTCGTTGTGACAGGATGCAACTGCTCCAT 350
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Search completed: January 11, 2006, 04:37:50
Job time : 112.089 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 88.4734 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-25

Perfect score: 356
Sequence: 1 gacgggataactatgcac.....tgctctgccttgatg99 356

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued_Patents_NA:*
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2: /cgn2_6/prodata/1/ina/5 COMB.seq:*
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9: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 356 | 100.0 | 356 | 3 | US-08-836-075A-25 |
| 2 | 261.6 | 73.5 | 957 | 3 | US-09-878-281A-143 |
| 3 | 248.8 | 69.9 | 447 | 3 | US-08-836-075A-23 |
| 4 | 226.4 | 63.6 | 447 | 3 | US-08-836-075A-19 |
| 5 | 216.8 | 60.9 | 957 | 3 | US-08-836-075A-17 |
| 6 | 214.4 | 60.2 | 579 | 3 | US-08-836-075A-15 |
| 7 | 211.2 | 59.3 | 1195 | 3 | US-08-836-075A-15 |
| 8 | 204 | 57.3 | 9589 | 2 | US-07-925-695-1 |
| 9 | 204 | 57.3 | 9589 | 2 | US-07-925-695-2 |
| 10 | 195.6 | 54.9 | 9511 | 2 | US-07-925-695-6 |
| 11 | 195.6 | 54.9 | 9511 | 2 | US-07-925-695-7 |
| 12 | 160.4 | 45.1 | 1018 | 3 | US-08-444-818-149 |
| 13 | 157.6 | 44.3 | 1019 | 3 | US-08-444-818-155 |
| 14 | 156 | 43.8 | 587 | 3 | US-08-444-818-159 |
| 15 | 156 | 43.8 | 12980 | 3 | US-08-811-566-5 |
| 16 | 156 | 43.8 | 12980 | 3 | US-09-034-756-5 |
| 17 | 154.4 | 43.4 | 9599 | 3 | US-09-014-416-2 |
| 18 | 154.4 | 43.4 | 9646 | 3 | US-08-811-566-1 |
| 19 | 154.4 | 43.4 | 9646 | 3 | US-09-034-756-1 |
| 20 | 154.4 | 43.4 | 10803 | 3 | US-10-259-275-17 |
| 21 | 152.8 | 42.9 | 447 | 3 | US-08-836-075A-29 |
| 22 | 152.8 | 42.9 | 501 | 2 | US-08-483-695-27 |
| 23 | 152.8 | 42.9 | 501 | 2 | US-07-965-285-27 |
| 24 | 152.8 | 42.9 | 501 | 2 | US-08-487-231-27 |

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| 25 | 152.8 | 42.9 | 501 | 3 | US-09-201-912-27 | Sequence 27, Appl |
| 26 | 152.8 | 42.9 | 574 | 3 | US-09-878-281A-120 | Sequence 120, App |
| 27 | 152.8 | 42.9 | 579 | 3 | US-09-878-281A-173 | Sequence 173, App |
| 28 | 152.8 | 42.9 | 579 | 3 | US-09-878-281A-175 | Sequence 175, App |
| 29 | 152.8 | 42.9 | 657 | 3 | US-08-444-818-162 | Sequence 162, App |
| 30 | 152.8 | 42.9 | 1019 | 3 | US-08-444-818-154 | Sequence 154, App |
| 31 | 152.8 | 42.9 | 8316 | 3 | US-08-444-818-88 | Sequence 88, Appl |
| 32 | 152.8 | 42.9 | 8987 | 3 | US-08-444-818-137 | Sequence 137, Appl |
| 33 | 152.8 | 42.9 | 9185 | 3 | US-08-444-818-122 | Sequence 122, App |
| 34 | 152.8 | 42.9 | 9185 | 3 | US-08-444-818-123 | Sequence 123, App |
| 35 | 152.8 | 42.9 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl1 |
| 36 | 152.8 | 42.9 | 9379 | 3 | US-09-388-874-1 | Sequence 1, Appl1 |
| 37 | 152.8 | 42.9 | 9379 | 3 | US-09-916-359-1 | Sequence 1, Appl1 |
| 38 | 152.8 | 42.9 | 9401 | 2 | US-07-910-760-9 | Sequence 9, Appl1 |
| 39 | 152.8 | 42.9 | 9401 | 2 | US-08-440-519-9 | Sequence 9, Appl1 |
| 40 | 152.8 | 42.9 | 9401 | 2 | US-08-432-693-1 | Sequence 1, Appl1 |
| 41 | 152.8 | 42.9 | 9401 | 3 | US-08-440-549-9 | Sequence 9, Appl1 |
| 42 | 152.8 | 42.9 | 9401 | 3 | US-08-823-895A-25 | Sequence 25, Appl1 |
| 43 | 152.8 | 42.9 | 9416 | 3 | US-08-811-566-19 | Sequence 19, Appl1 |
| 44 | 152.8 | 42.9 | 9416 | 3 | US-09-034-756-19 | Sequence 19, Appl1 |
| 45 | 152.8 | 42.9 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, Appl1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-25
Sequence 25, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 356 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
HYPOTHETICAL: NO

[illegible]

| | | | | |
|-----------------------|-----------------|--------------------|-----------|-------------|
| Query Match | 60.9% | Score 216.8; | DB 3; | Length 957; |
| Best Local Similarity | 75.6% | Pred. No. 4.6e-55; | | |
| Matches 269; | Conservative 0; | Mismatches 87; | Indels 0; | Gaps 0; |

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DB 478 GACGGGATAAATGATGACAGAGGAACTGCTGTTGCTCTTTCTATCTTACTG 537
QY 61 GCCCTGCTTCTTGCATGACCGTGGTCTGCGGCTGCAAGTTGGCAACCGAGTGT 120
DB 538 GCTCTGCTGCTTGTATGACCGTGGTCTGCGGCTGCAAGTTGGCAACCGAGTGT 597
QY 121 TCTTACATGATGACCAATGATGCTGCAACAGAGCATGCTTTGGAGCTGAGAGGCC 180
DB 598 TTTCTACATGCGACTATGATGATGCTGCAACAGAGCATGCTTTGGAGCTGAGAGGCC 657
QY 181 GTCCTTACGCTGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 240
DB 658 GTGCTCATGATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 717
QY 241 ATACCGGTCAACCTTAACTGCTGATGATGATGATGATGATGATGATGATGATG 300
DB 718 ACAGCGGTCTGCGCAACGATGATGATGATGATGATGATGATGATGATGATG 777
QY 301 ACACATATTGACATGATGATGATGATGATGATGATGATGATGATGATGATG 356
DB 778 GCTCACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 833

RESULT 6
US-08-836-075A-15
Sequence 15, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-15
Query Match 60.2%; Score 214.4; DB 3; Length 579;
Best Local Similarity 74.7%; Pred. No. 2e-54;
Matches 266; Conservative 0; Mismatches 90; Indels 0; Gaps 0;
QY 1 GACGGGATAAATGATGACAGAGGAACTGCTGTTGCTCTTTCTATCTTACTG 60
DB 100 GACGGGATAAATGATGACAGAGGAACTGCTGTTGCTCTTTCTATCTTACTG 159
QY 61 GCCCTGCTTCTTGCATGACCGTGGTCTGCGGCTGCAAGTTGGCAACCGAGTGT 120
DB 160 GCTCTGCTGCTTGTATGACCGTGGTCTGCGGCTGCAAGTTGGCAACCGAGTGT 219
QY 121 TCTTACATGATGACCAATGATGCTGCAACAGAGCATGCTTTGGAGCTGAGAGGCC 180
DB 220 GCTTATATGACCAACAGAGCATGCTTCAACAGAGCATGATGATGATGATGATG 279
QY 181 GTCCTTACGCTGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 240
DB 280 GTGCTCATGATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 339
QY 241 ATACCGGTCAACCTTAACTGCTGATGATGATGATGATGATGATGATGATGATG 300
DB 340 ATCCGATCTGCGCAACAGATGATGATGATGATGATGATGATGATGATGATG 399
QY 301 ACACATATTGACATGATGATGATGATGATGATGATGATGATGATGATGATG 356
DB 400 GACGATGATGATGATGATGATGATGATGATGATGATGATGATG 455

RESULT 7
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEITICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

Query Match 59.3%; Score 211.2; DB 3; Length 1195;
Best Local Similarity 73.3%; Pred. No. 2.4e-53;
Matches 261; Conservative 3; Mismatches 92; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGACAGGAACTGCTGCTGCTCTTCTATCTTACTG 60
DB 716 GACGGATTAACATATGAAAGGAACTGCTGCTGCTCTTCTATCTTACTG 775
QY 61 GCCCTGCTTCTGATCAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 776 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 835
QY 121 TCTTACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
DB 836 ACATACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 895
QY 181 GTCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
DB 896 GTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 955
QY 241 ATACCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 956 ATTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1015
QY 301 ACACATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 356
DB 1016 TCGCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1071

RESULT 8

US-07-925-695-1

Sequence 1, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Wellacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991

APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Wellacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/87-48009
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 57.3%; Score 204; DB 2; Length 9589;
Best Local Similarity 55.9%; Pred. No. 6.7e-51;
Matches 199; Conservative 62; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGACAGGAACTGCTGCTGCTCTTCTATCTTACTG 60
DB 818 GACGGGUAUUAUUCGACAGGAACTGCTGCTGCTCTTCTATCTTACTG 877
QY 61 GCCCTGCTTCTGATCAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 878 GCCCTGCTTCTGATCAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 937
QY 121 TCTTACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
DB 938 GGCUCAGUGUGUACGACGACGACGACGACGACGACGACGACGACGACG 997
QY 181 GTCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
DB 998 GUCCUCAGUGUGUACGACGACGACGACGACGACGACGACGACGACG 1057
QY 241 ATACCGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 1058 AUAACGUGUCGACGACGACGACGACGACGACGACGACGACGACG 1117
QY 301 ACACATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 356
DB 1118 AGCAGUAGUGUGUACGACGACGACGACGACGACGACGACGACGACG 1173

RESULT 9

US-07-925-695-2

Sequence 2, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Beveridge, Degrandi, Wellacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991

PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-07-925-695-2

Query Match      57.3%; Score 204; DB 2; Length 9589;
Best Local Similarity 73.3%; Pred. No. 6,7e-51;
Matches 261; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTGCTCTTTCTATCTTACTG 60
Db 818 GACGGGTTAATTGCAACAGGAACTTACCGGTTGCTCTTTCTATCTTCTG 877
QY 61 GCCCTGCTTTGATCAGCAGCGTCCGCTCTCCCTGCAAGTGGAAACCGAGTGT 120
Db 878 GCCCTGCTTTGATCAGCAGCGTCCGCTCTCCCTGCAAGTGGAAACATGATACC 937
QY 121 TCTTACATGATGACCAATGATGCTGCAACAGCAATCGTTGGCAGCTGAGAGGCC 180
Db 938 GGCCTACATGATGACCAACAGCAATGATGATGATGATGATGATGATGATGATG 997
QY 181 GTCCTTACATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 240
Db 998 GTCCTTACATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 1057
QY 241 ATACCGGTCACCCCTAATGCTGATGATGATGATGATGATGATGATGATGATG 300
Db 1058 ATACCGGTCACCCCTAATGCTGATGATGATGATGATGATGATGATGATGATG 1117
QY 301 ACACATATGACATCATTTGCGCGTCCGCAAGTTCGCTGCTGATGATGATG 356
Db 1118 ACACATATGACATCATTTGCGCGTCCGCAAGTTCGCTGCTGATGATGATG 1173

RESULT 10
US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807

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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-07-925-695-6

Query Match      54.9%; Score 195.6; DB 2; Length 9511;
Best Local Similarity 52.0%; Pred. No. 2.2e-48;
Matches 185; Conservative 72; Mismatches 99; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTGCTCTTTCTATCTTACTG 60
Db 819 GACGGGTTAATTGCAACAGGAACTTACCGGTTGCTCTTTCTATCTTCTG 878
QY 61 GCCCTGCTTTGATCAGCAGCGTCCGCTCTCCCTGCAAGTGGAAACCGAGTGT 120
Db 879 GGCCTACATGATGACCAACAGCAATGATGATGATGATGATGATGATGATGATG 938
QY 121 TCTTACATGATGACCAATGATGCTGCAACAGCAATCGTTGGCAGCTGAGAGGCC 180
Db 939 AGCCTACATGATGACCAACAGCAATGATGATGATGATGATGATGATGATGATG 998
QY 181 GTCCTTACATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 240
Db 999 GTCCTTACATGCTGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 1058
QY 241 ATACCGGTCACCCCTAATGCTGATGATGATGATGATGATGATGATGATGATG 300
Db 1059 ATACCGGTCACCCCTAATGCTGATGATGATGATGATGATGATGATGATGATG 1118
QY 301 ACACATATGACATCATTTGCGCGTCCGCAAGTTCGCTGCTGATGATGATG 356
Db 1119 ACACATATGACATCATTTGCGCGTCCGCAAGTTCGCTGCTGATGATGATG 1174

RESULT 11
US-07-925-695-7
; Sequence 7, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

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Query Match      54.9%; Score 195.6; DB 2; Length 9511;
Best Local Similarity 70.8%; Pred. No. 2.2e-48;
Matches 252; Conservative 5; Mismatches 99; Indels 0; Gaps 0;

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QY 1 GAGGGGATAAATGATGCAAGAGGACCTGCGTGGTCTCTTATCTTCTTACG 60
DB 819 GAGGGGATAAATGATGCAAGAGGACCTGCGTGGTCTCTTATCTTCTTACG 878
QY 61 GCCCTGCTTCTTGCATCACCGCGCGTCTGCGTGAAGTTGGCAACCGCAGTGT 120
DB 879 GCTCTTCTGTCATCGCGTCACATGCCAGTGTCTGCACTGGAAGTCAAGAACTATGTTCT 938
QY 121 TCTTACATGCTGACCAATGATGCTGCAAGCAGCATCTTTGGCAGCTGAGAGGCTC 180
DB 939 AGCTACTACGCCACTATGATGCTCAAAACAGCATCATCGGCGAGTCTACAGGCA 998
QY 181 GTCCTTACGCTCCCTGATGATGTTCCCTGATGATGAGAAACAACACTCCCGTGTG 240
DB 999 GTTCTTCATCTTCTGATGATGCTCCATGATGAGAAATGATGAGCACTTGTGCTGTG 1058
QY 241 ATACCGGTCAACCCCTATCATGCTGTGAGCAACCTGGCGGCTTACCAAGGCGTTCG 300
DB 1059 ATACAGTAAACCCCAACCGCGTGTGAGAAACCGCGGTGCGTCACTGTAAGCTTGTGA 1118
QY 301 ACACATATGACATGATGTCGCGTCCGCAAGTCTGCTGCTTGTGATGTTGG 356
DB 1119 ACACAGCTGACATGATGTAATGAGCAGTACGGCGTGTGCGCTGTGATGTTGG 1174

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RESULT 12
US-08-444-818-149
Sequence 149, Application US/08444818
Patent No. 6150087
GENERAL INFORMATION:
APPLICANT: Chien, David Y.
APPLICANT: Rutter, William J.
TITLE OF INVENTION: NANBV Diagnostics and Vaccines
NUMBER OF SEQUENCES: 777
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: CA
COUNTRY: USA
ZIP: 94608-2916

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,818
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/403,590
FILING DATE: 14-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Harbin, Alisa A.
REGISTRATION NUMBER: 33,895
REFERENCE/DOCKET NUMBER: 0110.002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 359-3876
TELEFAX: (508) 359-3885
INFORMATION FOR SEQ ID NO: 149:
SEQUENCE CHARACTERISTICS:
LENGTH: 1018 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human 23
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1017
FEATURE:
NAME/KEY: misc_feature
LOCATION: 70
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 70 = G or C and amino acid Xaa = Ala, Pro, Gly, or
OTHER INFORMATION: Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 71
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 71 = C or G and amino acid Xaa = Ala, Pro, Gly, or
OTHER INFORMATION: Arg"
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NAME/KEY: misc_feature
LOCATION: 75
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 75 = C or A and amino acid Xaa = His or Gln"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 140
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 140 = C or G and amino acid Xaa = Ser or Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 141
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OTHER INFORMATION: nucleotide 141 = T or A and amino acid Xaa = Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 162
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 162 = C or T and amino acid Xaa = Leu"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 263
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 263 = C or T and amino acid Xaa = Ala or Val"
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NAME/KEY: misc_feature
LOCATION: 292
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 292 = T or C and amino acid Xaa = Cys or Arg"

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FEATURE:
NAME/KEY: misc_feature
LOCATION: 309
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 309 = C or G and amino acid Xaa = Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 359
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 359 = C or T and amino acid Xaa = Thr or Ile"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 411
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 411= T or C and amino acid Xaa = Leu "
FEATURE:
NAME/KEY: misc_feature
LOCATION: 419
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OTHER INFORMATION: nucleotide 419 = G or A and amino acid Xaa = Ser or Asn"
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LOCATION: 429
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OTHER INFORMATION: nucleotide 429 = C or T and amino acid Xaa = Leu"
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NAME/KEY: misc_feature
LOCATION: 521
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 521 = A or C and amino acid Xaa = Gln or Pro"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 590
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OTHER INFORMATION: nucleotide 590 = A or G and amino acid Xaa = Asn or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 615
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OTHER INFORMATION: nucleotide 615 = A or G and amino acid Xaa = Val"
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NAME/KEY: misc_feature
LOCATION: 619
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OTHER INFORMATION: nucleotide 619 = G or A and amino acid Xaa = Ala, Thr, Gly, C
OTHER INFORMATION: Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 620
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 620 = C or G and amino acid Xaa = Ala, Thr, Gly, C
OTHER INFORMATION: Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 700
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OTHER INFORMATION: nucleotide 700 = T or G and amino acid Xaa = Phe or Val"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 764
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 764 = C or G and amino acid Xaa = Ala or Gly"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 781
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OTHER INFORMATION: nucleotide 781 = G or C and amino acid Xaa = Gly or Arg"
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NAME/KEY: misc_feature
LOCATION: 792
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OTHER INFORMATION: nucleotide 792 = C or T and amino acid Xaa = Ala"
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NAME/KEY: misc_feature
LOCATION: 796
OTHER INFORMATION: /note= "A heterogeneity exists -
OTHER INFORMATION: nucleotide 796 = C or A and amino acid Xaa = Arg or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 888
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 888 = T or A and amino acid Xaa = Ser or Arg"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 889
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 889 = A or T and amino acid Xaa = Thr or Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 903
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 903 = C or A and amino acid Xaa = Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 933
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 933 = G or A and amino acid Xaa = Ala "
FEATURE:
NAME/KEY: misc_feature
LOCATION: 962
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 962 = C or G and amino acid Xaa = Ser or Cys"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 965
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 965 = C or A and amino acid Xaa = Ser"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1002
OTHER INFORMATION: /note= "A heterogeneity may exist -
OTHER INFORMATION: nucleotide 1002 = C or G and amino acid Xaa = Leu "
US-08-444-818-149

Query Match 45.1%; Score 160.4; DB 3; Length 1018;
Best Local Similarity 63.8%; Pred. No. 3.6e-38;
Matches 227; Conservative 9; Mismatches 120; Indels 0; Gaps 0;

QY 1 GACGGATTAACATGACGAGGACCGCTGCTCCCTTCTTACTTCTACTG 60
DB 94 GACGGCTGAACATGACGAGGACCGCTGCTCCCTTCTTCTTCTTCTG 153
QY 61 GCCCTGCTTCTGATCAACCGTCCGCTGCTGCGTGAATGCGAACCGAGTGT 120
DB 154 GCCCTACTTCTTCTGATCAACCGTCCGCTGCTGCGTGAATGCGAACCGAGTGT 213
QY 121 TCTTACATGATGACCAATGATGCTGACAGACATCTTTGGACGCTGAGAGGCC 180
DB 214 CTTTACCATGATGACCAATGATGCTGACAGATGATGATGACAGAGGCGGATGCC 273
QY 181 GTCTTACGCTCCGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 240
DB 274 ATCTTACGCTCCGATGATGCTGCTGATGATGATGATGATGATGATGATGATG 333
QY 241 ATACCGGTGACCCCTTACATGCTGATGAGCAACCTGCGCGCTTACCAAGGCGTGGC 300
DB 334 GTGGCGGTGACCCCGTACGCTGATGAGCAACCTGCGCGCTTACCAAGGCGTGGC 393
QY 301 ACAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 356
DB 394 CGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 449

RESULT 13
US-08-444-818-155
; Sequence 155, Application US/08444818
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1 Patent No. 6150087
2 GENERAL INFORMATION:
3 APPLICANT: Chien, David Y.
4 APPLICANT: Rutter, William J.
5 TITLE OF INVENTION: NANBV Diagnostics and Vaccin
6 NUMBER OF SEQUENCES: 777
7 CORRESPONDENCE ADDRESS:
8 ADDRESSEE: Chiron Corporation
9 STREET: 4560 Horton Street
10 CITY: Emeryville
11 STATE: CA
12 COUNTRY: USA
13 ZIP: 94608-2916
14 COMPUTER READABLE FORM:
15 MEDIUM TYPE: Floppy disk
16 COMPUTER: IBM PC compatible
17 OPERATING SYSTEM: PC-DOS/MS-DOS
18 SOFTWARE: Patent In Release #1.0, Version #1.30
19 CURRENT APPLICATION DATA:
20 APPLICATION NUMBER: US/08/444,818
21 FILING DATE:
22 CLASSIFICATION: 424
23 PRIOR APPLICATION DATA:
24 APPLICATION NUMBER: US/08/403,590
25 FILING DATE: 14-MAR-1995
26 ATTORNEY/AGENT INFORMATION:
27 NAME: Hardin, Alisa A.
28 REGISTRATION NUMBER: 33,895
29 REFERENCE/DOCKET NUMBER: 0110.002
30 TELECOMMUNICATION INFORMATION:
31 TELEPHONE: (508)359-1876
32 TELEFAX: (508)359-3885
33 INFORMATION FOR SEQ ID NO: 155:
34 SEQUENCE CHARACTERISTICS:
35 LENGTH: 1019 base pairs
36 TYPE: nucleic acid
37 STRANDEDNESS: single
38 TOPOLOGY: linear
39 MOLECULE TYPE: cDNA
40 ORIGINAL SOURCE:
41 INDIVIDUAL ISOLATE: Human 23
42
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RESULT 15
US-08-811-566-5
Sequence 5, Application US/08811566
Patent No. 6127116
GENERAL INFORMATION:
APPLICANT: Rice, Charles et al.
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/811,566
FILING DATE: 03-MAR-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1113-1-006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 12980 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-811-566-5

Query Match 43.8%; Score 156; DB 3; Length 12980;
Best Local Similarity 64.9%; Pred. No. 1.7e-36;
Matches 231; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

QY 1 GACGGATTAACATATGCAACAGGAACTGCTGCTCTTCTATCTTCTACTG 60
DB 819 GACGGCGTGAACATATGCAACAGGAACTGCTGCTCTTCTATCTTCTACTG 878
QY 61 GCCCTGCTTCTGATCACCCTGCGGCTCTCTGCGGCAAGTTGCAACCGCAGTGT 120
DB 879 GCCCTGCTTCTGATCACCCTGCGGCTCTCTGCGGCAAGTTGCAACCGCAGTGT 938
QY 121 TCTTACATGATGACCAATGATGCTCGAAGCAGCAATCGTTGGCACTGAGGAGGCC 180
DB 939 CTTTACCATGCAACCAATGATGCTCGAAGCAGCAATCGTTGGCACTGAGGAGGCC 998
QY 181 GTCCCTACGTCCTGATGATGTTCCCTGATGATGAAAGCAACACTCCCGCTGCTG 240
DB 999 ATCTGCACTCGGGGGTGTCTCTGCGGTAAGGCTGAGGCTGAGGCTGAGGCTG 1058
QY 241 ATACCGGTACCCCTTAACATGCTGTGAGCCACCTGCGGCTTACCAAGGCTGCGG 300
DB 1059 GTGGCGGTGACCCCGAGGTGAGCCACCGAGGAGGCAAACTCCCAACAAGCACTTGA 1118
QY 301 ACACATATGACATCATTTGCGCGTCCGCGCAAGTTGCTGCTGTATGAGG 356
DB 1119 CGTCATATGATGCTGCTGCGGAGGCGCACCTTGTGCTGCGCTCTTACGTGG 1174

Search completed: January 11, 2006, 04:37:51
Job time : 89.4734 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 77.014 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-27
Perfect score: 310
Sequence: 1 atgagcagcatcctaacc.....ctgtcccccgcggtcttc 310

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

1: Issued_Patents_NA.*
2: /cgn2_6/ptodata/1/ina/1_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
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8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 308 | 99.4 | 310 | 3 | US-08-836-075A-27 |
| 2 | 288.8 | 93.2 | 573 | 2 | US-08-290-665A-143 |
| 3 | 288.8 | 93.2 | 573 | 6 | PCT-US95-10398-143 |
| 4 | 279.2 | 90.1 | 499 | 3 | US-09-878-281A-163 |
| 5 | 279.2 | 90.1 | 573 | 2 | US-08-290-665A-144 |
| 6 | 279.2 | 90.1 | 573 | 6 | PCT-US95-10398-144 |
| 7 | 275 | 88.7 | 499 | 3 | US-09-878-281A-165 |
| 8 | 269.6 | 87.0 | 573 | 2 | US-08-290-665A-140 |
| 9 | 269.6 | 87.0 | 573 | 2 | US-08-290-665A-145 |
| 10 | 269.6 | 87.0 | 573 | 6 | PCT-US95-10398-140 |
| 11 | 269.6 | 87.0 | 573 | 6 | PCT-US95-10398-145 |
| 12 | 268 | 86.5 | 573 | 6 | US-08-290-665A-142 |
| 13 | 268 | 86.5 | 573 | 6 | PCT-US95-10398-142 |
| 14 | 266.8 | 86.1 | 289 | 3 | US-09-878-281A-191 |
| 15 | 264.8 | 85.4 | 573 | 2 | US-08-290-665A-139 |
| 16 | 264.8 | 85.4 | 573 | 6 | PCT-US95-10398-139 |
| 17 | 261.6 | 84.4 | 498 | 3 | US-09-878-281A-193 |
| 18 | 258.4 | 83.4 | 573 | 3 | US-09-194-949A-5 |
| 19 | 258 | 83.2 | 573 | 2 | US-08-290-665A-141 |
| 20 | 256.8 | 82.8 | 573 | 6 | PCT-US95-10398-141 |
| 21 | 256.8 | 82.8 | 573 | 6 | US-08-290-665A-117 |
| 22 | 256.8 | 82.8 | 573 | 6 | PCT-US95-10398-117 |
| 23 | 255.2 | 82.3 | 549 | 3 | US-08-441-971-57 |
| 24 | 255.2 | 82.3 | 549 | 3 | US-08-441-971-62 |

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|----|-------|------|------|---|--------------------|-------------------|
| 25 | 255.2 | 82.3 | 549 | 3 | US-08-441-971-63 | Sequence 63, Appl |
| 26 | 255.2 | 82.3 | 549 | 3 | US-08-221-653-57 | Sequence 57, Appl |
| 27 | 255.2 | 82.3 | 549 | 3 | US-08-221-653-62 | Sequence 62, Appl |
| 28 | 255.2 | 82.3 | 549 | 3 | US-08-221-653-63 | Sequence 63, Appl |
| 29 | 255.2 | 82.3 | 549 | 3 | US-08-442-144A-57 | Sequence 57, Appl |
| 30 | 255.2 | 82.3 | 549 | 3 | US-08-442-144A-62 | Sequence 62, Appl |
| 31 | 255.2 | 82.3 | 549 | 3 | US-08-442-144A-63 | Sequence 63, Appl |
| 32 | 255.2 | 82.3 | 549 | 3 | US-08-441-970-57 | Sequence 57, Appl |
| 33 | 255.2 | 82.3 | 549 | 3 | US-08-441-970-62 | Sequence 62, Appl |
| 34 | 255.2 | 82.3 | 549 | 3 | US-08-441-970-63 | Sequence 63, Appl |
| 35 | 255.2 | 82.3 | 2433 | 3 | US-08-612-973-49 | Sequence 49, Appl |
| 36 | 255.2 | 82.3 | 2433 | 3 | US-08-927-597-49 | Sequence 49, Appl |
| 37 | 255.2 | 82.3 | 2433 | 3 | US-08-928-757-49 | Sequence 49, Appl |
| 38 | 253.6 | 81.8 | 378 | 3 | US-08-931-855B-13 | Sequence 13, Appl |
| 39 | 253.6 | 81.8 | 549 | 3 | US-08-441-971-54 | Sequence 54, Appl |
| 40 | 253.6 | 81.8 | 549 | 3 | US-08-221-653-54 | Sequence 54, Appl |
| 41 | 253.6 | 81.8 | 549 | 3 | US-08-442-144A-54 | Sequence 54, Appl |
| 42 | 253.6 | 81.8 | 549 | 3 | US-08-441-970-54 | Sequence 54, Appl |
| 43 | 253.6 | 81.8 | 573 | 2 | US-08-290-665A-118 | Sequence 118, App |
| 44 | 253.6 | 81.8 | 573 | 6 | PCT-US95-10398-118 | Sequence 118, App |
| 45 | 252 | 81.3 | 549 | 3 | US-08-441-971-53 | Sequence 53, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-27
; Sequence 27, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULAR TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-27

Query Match 99.4%; Score 308; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 5,7e-93;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
DB 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCAGGTTGGGTGTGCGCGCAGATCGTGAAGACTTTCGAGCGGTGCGAACCTCGTGGG 180
DB 121 GGGCCAGGTTGGGTGTGCGCGCAGATCGTGAAGACTTTCGAGCGGTGCGAACCTCGTGGG 180
QY 181 AGACGCCAACCTATCCCAAGGCGCGTGCATCGAGGGAAGAGTCTTGCGCAGCAGGA 240
DB 181 AGACGCCAACCTATCCCAAGGCGCGTGCATCGAGGGAAGAGTCTTGCGCAGCAGGA 240
QY 241 TATCCATGCGCTCTTTACGCTAATGAGGCTTTCGCGTGGCGCANNATGCTTGTCCCGC 300
DB 241 TATCCATGCGCTCTTTACGCTAATGAGGCTTTCGCGTGGCGCANNATGCTTGTCCCGC 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 2

US-08-290-665A-143
Sequence 143, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE

CITY: NEW YORK
STATE: NEW YORK

COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849

TELEX: 421792
INFORMATION FOR SEQ ID NO: 143:

SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs

type: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeoplans
INDIVIDUAL ISOLATE: 26
US-08-290-665A-143

Query Match 93.2%; Score 288.8; DB 2; Length 573;
Best Local Similarity 95.5%; Pred. No. 2e-86;
Matches 296; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACAAGCTAACACCAACCGCCGCCCATG 60
QY 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
DB 61 GAGCTTAAGTCCCGGGTGTGCGCAGATCGTTGCGAGTTTACTTGTGCGCGCAGG 120
QY 121 GGGCCAGGTTGGGTGTGCGCGCAGATCGTGAAGACTTTCGAGCGGTGCGAACCTCGTGGG 180
DB 121 GGGCCAGGTTGGGTGTGCGCGCAGATCGTGAAGACTTTCGAGCGGTGCGAACCTCGTGGG 180
QY 181 AGACGCCAACCTATCCCAAGGCGCGTGCATCGAGGGAAGAGTCTTGCGCAGCAGGA 240
DB 181 AGACGCCAACCTATCCCAAGGCGCGTGCATCGAGGGAAGAGTCTTGCGCAGCAGGA 240
QY 241 TATCCATGCGCTCTTTACGCTAATGAGGCTTTCGCGTGGCGCANNATGCTTGTCCCGC 300
DB 241 TATCCATGCGCTCTTTACGCTAATGAGGCTTTCGCGTGGCGCANNATGCTTGTCCCGC 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGTTCTC 310

RESULT 3

PCT-US95-10398-143
Sequence 143, Application PC/TUS9510398

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE

CITY: NEW YORK
STATE: NEW YORK

COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995

CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665

FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459

REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 143:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z6
 PCT-US95-10398-143

Query Match 93.2%; Score 288.8; DB 6; Length 573;
 Best Local Similarity 95.5%; Pred. No. 2e-86;
 Matches 296; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
 DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
 QY 61 GAGCTTAAGTCCCGGGTGGTGGCAGATCGTTGCGGAGTTTACTTTGCGCGCAGG 120
 DB 61 GAGCTTAAGTCCCGGGTGGTGGCAGATCGTTGCGGAGTTTACTTTGCGCGCAGG 120
 QY 121 GGGCCCAAGTTGGGTGGTGGCGGCGACTCGGAAGACTTGGAGCGGTGCACTGTGGG 180
 DB 121 GGGCCCAAGTTGGGTGGTGGCGGCGACTCGGAAGACTTGGAGCGGTGCACTGTGGG 180
 QY 181 AGAGCGCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGGTCTTGGGCAACGCCAGA 240
 DB 181 AGAGCGCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGGTCTTGGGCAACGCCAGA 240
 QY 241 TATCATGAGCTCTTTACGATAGAGGTTGCGGATGAGGCTCTTGTCCCCC 300
 DB 241 TATCATGAGCTCTTTACGATAGAGGTTGCGGATGAGGCTCTTGTCCCCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGTGGCTCTC 310

RESULT 4
 US-09-878-281A-163
 ; Sequence 163, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: Patent version 3.1
 ; SEQ ID NO 163
 ; LENGTH: 499
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-163

Query Match 90.1%; Score 279.2; DB 3; Length 499;
 Best Local Similarity 93.5%; Pred. No. 3e-83;
 Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
 DB 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60
 QY 61 GAGCTTAAGTCCCGGGTGGTGGCAGATCGTTGCGGAGTTTACTTTGCGCGCAGG 120

DB 61 GAGCTTAAGTCCCGGGTGGTGGCAGATCGTTGCGGAGTTTACTTTGCGCGCAGG 120
 QY 121 GGGCCCAAGTTGGGTGGTGGCGGCGACTCGGAAGACTTGGAGCGGTGCACTGTGGG 180
 DB 121 GGGCCCAAGTTGGGTGGTGGCGGCGACTCGGAAGACTTGGAGCGGTGCACTGTGGG 180
 QY 181 AGAGCGCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGGTCTTGGGCAACGCCAGA 240
 DB 181 AGAGCGCAACTATCCCAAGGCGCGTGCATCCGAGGGAAGGTCTTGGGCAACGCCAGA 240
 QY 241 TATCATGAGCTCTTTACGATAGAGGTTGCGGATGAGGCTCTTGTCCCCC 300
 DB 241 TATCATGAGCTCTTTACGATAGAGGTTGCGGATGAGGCTCTTGTCCCCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGTGGCTCTC 310

RESULT 5
 US-08-290-665A-144
 ; Sequence 144, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290, 665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 144:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 573 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; ORIGINAL SOURCE:
 ; ORGANISM: homosapiens
 ; INDIVIDUAL ISOLATE: Z7
 US-08-290-665A-144

Query Match 90.1%; Score 279.2; DB 2; Length 573;
 Best Local Similarity 93.5%; Pred. No. 3.2e-83;
 Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGTACACCAACCGCGCCCATG 60

```

Db      1  ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy      61  GACGTTAAGTTCCTCCGGGTGTGGCCAGATCGTTGGCGAGTTACTGTTCGCCGAGG 120
Db      61  GACGTTAAGTTCCTCCGGGTGTGGCCAGATCGTTGGCGAGTTACTGTTCGCCGAGG 120
Qy      121  GGCCCCAGATTGGGTGTGGCGCGACTCGGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Db      121  GGCCCCAGATTGGGTGTGGCGCGACTCGGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Qy      181  AGAGCCCAACTATCCCAAGCGCGCTCGATCCGAGGAAGTCTTGGGCAACCGCAGGA 240
Db      181  AGAGCTACGCTATCCCAAGCGCGCTCGATCGAGGGAAGGTCTTGGGCTCAACCGCGG 240
Qy      241  TATCATAGGCTCTTTACGTTAATGAGGGTTGGCGGTGGCGANNATGGCTTTGCCCCC 300
Db      241  TACCATAGGCTCTTTACGTTAATGAGGGTTGGCGGTGGCGAGATGGCTTTGTCAACC 300
Qy      301  CGCGGTTCTC 310
Db      301  CGTGGCTCTC 310

```

RESULT 6 PCT-US95-10398-144

; Sequence 144, Application PC/TUS9510398
GENERAL INFORMATION:

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; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 144:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:

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; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: 27
; PCT-US95-10398-144

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```

Query Match      90.1%; Score 279.2; DB 6; Length 573;
Best Local Similarity 93.5%; Pred. No. 3.2e-83;
Matches 290; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

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Qy      1  ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Db      1  ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy      61  GACGTTAAGTTCCTCCGGGTGTGGCCAGATCGTTGGCGAGTTACTGTTCGCCGAGG 120
Db      61  GACGTTAAGTTCCTCCGGGTGTGGCCAGATCGTTGGCGAGTTACTGTTCGCCGAGG 120
Qy      121  GGCCCCAGATTGGGTGTGGCGCGACTCGGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Db      121  GGCCCCAGATTGGGTGTGGCGCGACTCGGAAGACTTCGAGCGGTGCGCAACTCGTGGG 180
Qy      181  AGAGCCCAACTATCCCAAGCGCGCTCGATCCGAGGAAGTCTTGGGCAACCGCAGGA 240
Db      181  AGAGCTACGCTATCCCAAGCGCGCTCGATCGAGGGAAGGTCTTGGGCTCAACCGCGG 240
Qy      241  TATCATAGGCTCTTTACGTTAATGAGGGTTGGCGGTGGCGANNATGGCTTTGCCCCC 300
Db      241  TACCATAGGCTCTTTACGTTAATGAGGGTTGGCGGTGGCGAGATGGCTTTGTCAACC 300
Qy      301  CGCGGTTCTC 310
Db      301  CGTGGCTCTC 310

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RESULT 7

US-09-878-281A-165
; Sequence 165, Application US/09878281A
; Patent No. 6762024

```

; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 165
; LENGTH: 499
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (306)..(306)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (313)..(313)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (340)..(340)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-165

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Query Match      88.7%; Score 275; DB 3; Length 499;
Best Local Similarity 92.6%; Pred. No. 7.6e-82;
Matches 287; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

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Qy      1  ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Db      1  ATGAGCAGCATCTTAACCTCAAGAAAAACCAAGCTAACCAACCGCGCCCATG 60
Qy      61  GACGTTAAGTTCCTCCGGGTGTGGCCAGATCGTTGGCGAGTTACTGTTCGCCGAGG 120

```

|||||
Db 61 GACCTTAAGTTCCAGGCGGTGTGCAGATCCTTGGCCGAGTTTACTGTGCGCGCAGG 120
Qy 121 GGCCCCAGTTGGTGTGCGCGGAGCTCGAAGAATTGAGGCGGTGCAACCTGCGG 180
Db 121 GGCCCCAGTTGGTGTGCGCGGAGCTCGAAGAATTGAGGCGGTGCAACCTGCGG 180
Qy 181 AGAGCCCAACTATCCCAAGGCGGTGATCCGAGGGAAGTCTGCGCAAGCCAGGA 240
Db 181 AGAGCCCAACTATCCCAAGGCGGTGATCCGAGGGAAGTCTGCGCAAGCCAGG 240
Qy 241 TATCATGCGCTCTTAAAGGTAATGAGGCTTGGGTGGGCAANNATGCTTGTCCCC 300
Db 241 TATCATGCGCTCTTAAAGGTAATGAGGCTTGGGTGGGCAANNATGCTTGTCCCC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGCGGTTCTC 310

RESULT 8

US-08-290-665A-140
; Sequence 140, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 140:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
; US-08-290-665A-140

Query Match 87.0%; Score 269.6; DB 2; Length 573;
Best Local Similarity 91.6%; Pred. No. 5.2e-80;
Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
Qy 1 ATGAGCAGCATCTTAACCTCAAGAAACCAACGTAACCAACGCGCGCCCATG 60

|||||
Db 1 ATGAGCAGCATCTTAACCTCAAGAAACCAACGTAACCAACGCGCGCCCATG 60
Qy 61 GAGTTAAGTTCCCGGTTGTGCGCGGAGCTGTTGGGGAAGTTACTGTTGCCGCGAG 120
Db 61 GAGTTAAGTTCCCGGTTGTGCGCGGAGCTGTTGGGGAAGTTACTGTTGCCGCGAG 120
Qy 121 GGCCCCAGTTGGTGTGCGCGGAGCTCGAAGAATTGAGGCGGTGCAACCTGCGG 180
Db 121 GGCCCCAGTTGGTGTGCGCGGAGCTCGAAGAATTGAGGCGGTGCAACCTGCGG 180
Qy 181 AGAGCCCAACTATCCCAAGGCGGTGATCCGAGGGAAGTCTGCGCAAGCCAGGA 240
Db 181 AGAGCCCAACTATCCCAAGGCGGTGATCCGAGGGAAGTCTGCGCAAGCCAGG 240
Qy 241 TATCATGCGCTCTTAAAGGTAATGAGGCTTGGGTGGGCAANNATGCTTGTCCCC 300
Db 241 TATCATGCGCTCTTAAAGGTAATGAGGCTTGGGTGGGCAANNATGCTTGTCCCC 300
Qy 301 CGCGGTTCTC 310
Db 301 CGCGGTTCTC 310

RESULT 9

US-08-290-665A-145
; Sequence 145, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 145:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK13
; US-08-290-665A-145

Query Match 87.0%; Score 269.6; DB 2; Length 573;

Best Local Similarity 91.6%; Pred. No. 5.2e-80;
Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGCCCATG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGCCCATG 60

QY 61 GACGTTAAGTTCCTGAGGTGTCGACAGTCTGTGCGAGTTTACTTGTTCGCGCAGG 120
Db 61 GACGTTAAGTTCCTGAGGTGTCGACAGTCTGTGCGAGTTTACTTGTTCGCGCAGG 120

QY 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGGAAGACTTCGAGCGGTGCAACTGTGGG 180
Db 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGGAAGACTTCGAGCGGTGCAACTGTGGG 180

QY 181 AGAGCCCAACTATCCCAAGCGCGCTGATCCGAGGAAAGTCTGTGGCAAGCCAGGA 240
Db 181 AGAGCCCAACTATCCCAAGCGCGCTGATCCGAGGAAAGTCTGTGGCAAGCCAGGA 240

QY 241 TATCCATGAGCCTCTTACGCTATGAGAGGTTGCGGAGTGGCAGGANNATGCTTGTCCCC 300
Db 241 TATCCTTGGGCCCCCTTACGCGAATGAGAGGCTGCGGAGTGGGAGATGGCTCTGTCAACC 300

QY 301 CGCGGTTCTC 310
Db 301 CGTGGCTCTC 310

RESULT 10
PCT-US95-10398-140
Sequence 140, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 140:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeapiens
INDIVIDUAL ISOLATE: 28
PCT-US95-10398-140

Query Match 87.0%; Score 269.6; DB 6; Length 573;
Best Local Similarity 91.6%; Pred. No. 5.2e-80;
Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGCCCATG 60
Db 1 ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGCCCATG 60

QY 61 GACGTTAAGTTCCTGAGGTGTCGACAGTCTGTGCGAGTTTACTTGTTCGCGCAGG 120
Db 61 GATGTAAATTCCTCAAGCGCGCGCAAGTCTGTGGGAGTTTACTTGTTCGCGCAGG 120

QY 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGGAAGACTTCGAGCGGTGCAACTGTGGG 180
Db 121 GGGCCCAAGTTGGGTGTGCGCGCACTCGGAAGACTTCGAGCGGTGCAACTGTGGG 180

QY 181 AGAGCCCAACTATCCCAAGCGCGCTGATCCGAGGAAAGTCTGTGGCAAGCCAGGA 240
Db 181 AGAGCCCAACTATCCCAAGCGCGCTGATCCGAGGAAAGTCTGTGGCAAGCCAGGA 240

QY 241 TATCCATGAGCCTCTTACGCTATGAGAGGTTGCGGAGTGGCAGGANNATGCTTGTCCCC 300
Db 241 TACCATGAGCCTCTTACGCTATGAGAGGTTGCGGAGTGGGAGATGGCTCTGTCCCCC 300

QY 301 CGCGGTTCTC 310
Db 301 CGCGGCTCTC 310

RESULT 11
PCT-US95-10398-145
Sequence 145, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK

REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 145:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homomapiens
 INDIVIDUAL ISOLATE: DK13
 PCT-US95-10398-145

Query Match 87.0%; Score 269.6; DB 6; Length 573;
 Best Local Similarity 91.6%; Pred. No. 5,2e-80;
 Matches 284; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTCTAAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 DB 1 ATGAGCAGATCTCTAAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 QY 61 GACGTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTACTTGTGCGCGCAGG 120
 DB 61 GACGTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTACTTGTGCGCGCAGG 120
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 QY 181 AGAGCCCACTATCCCAAGCGCGTGCATCCAGGAGAGTCTTGGGCAACCCAGCA 240
 DB 181 AGAGCCCACTATCCCAAGCGCGTGCATCCAGGAGAGTCTTGGGCAACCCAGCA 240
 QY 241 TATCATGAGCTCTTTACGTTAATGAGGGTGTGCGGAGTGGCANNATGGCTTGTCCCCC 300
 DB 241 TATCATGAGCTCTTTACGTTAATGAGGGTGTGCGGAGTGGCANNATGGCTTGTCCCCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGCGGTTCTC 310

RESULT 12
 US-08-290-665A-142
 Sequence 142, Application US/08290665A
 Patent No. 5882852
 GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF INVENTION: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A

FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 142:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORIGINAL SOURCE:
 ORGANISM: homomapiens
 INDIVIDUAL ISOLATE: Z5
 US-08-290-665A-142

Query Match 86.5%; Score 268; DB 2; Length 573;
 Best Local Similarity 91.3%; Pred. No. 1.8e-79;
 Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTCTAAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 DB 1 ATGAGCAGATCTCTAAACCTCAAGAAAAACCAAGCTAACCAACCGCCGCCATG 60
 QY 61 GACGTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTACTTGTGCGCGCAGG 120
 DB 61 GACGTTAAGTCCCGGGTGTGCGCAGATCGTTGCGGAGTTACTTGTGCGCGCAGG 120
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 QY 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 DB 121 GGGCCAGGTTGGGTGTGCGCGCAGCTCGAAGAATTGCGAGCGGTGCAACTCTGTGG 180
 QY 181 AGAGCCCACTATCCCAAGCGCGTGCATCCAGGAGAGTCTTGGGCAACCCAGCA 240
 DB 181 AGAGCCCACTATCCCAAGCGCGTGCATCCAGGAGAGTCTTGGGCAACCCAGCA 240
 QY 241 TATCATGAGCTCTTTACGTTAATGAGGGTGTGCGGAGTGGCANNATGGCTTGTCCCCC 300
 DB 241 TATCATGAGCTCTTTACGTTAATGAGGGTGTGCGGAGTGGCANNATGGCTTGTCCCCC 300
 QY 301 CGCGGTTCTC 310
 DB 301 CGCGGTTCTC 310

RESULT 13
 PCT-US95-10398-142
 Sequence 142, Application PC/TUS9510398
 GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF INVENTION: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: hominids
INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match 86.5%; Score 268; DB 6; Length 573;
Best Local Similarity 91.3%; Pred. No. 1,86-79;
Matches 283; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 1 ATGAGCAGATCTTAAACCTCAAGAAAAACCAAGTAAACACCAACCGCCGCCATG 60
DB 1 ATGAGCAGATCTTAAACCTCAAGAAAAACCAAGTAAACACCAACCGCCGCCATG 60
QY 61 GACCTTAAGTCCCGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGAGG 120
DB 61 GATTTAAATTCGCGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGAGG 120
QY 121 GGGCCAGGTTGGTGTGCGCGCAGCTCGGAAGACTTGGAGCGGTGCAACTGTGGG 180
DB 121 GGGCCAGGTTGGTGTGCGCGCAGCTCGGAAGACTTGGAGCGGTGCAACTGTGGG 180
QY 181 AGAGCCCACTATCCCAAGCGCGCTCGATCCGAGGGAAGTCTTGGGCAACCGAGA 240
DB 181 AGGCGTACGCTATCCCAAGCGCGCTCGATCCGAGGGAAGTCTTGGGCTCAAGCCGAG 240
QY 241 TATCCATGAGCTCTTTACGTAATGAGGGTTGCGGGTGGGCAANNATGAGCTTGTCCCG 300
DB 241 TACCTTGAGCTCTTTATGGCAATGAGGGCTGTGGGTGGGAGGGTGGCTGTCTCCCG 300
QY 301 CGCGGTTCTC 310
DB 301 CGCGGATCTC 310
RESULT 14
US-09-878-281A-191
Sequence 191, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 191

LENGTH: 289
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-191

Query Match 86.1%; Score 266.8; DB 3; Length 289;
Best Local Similarity 95.1%; Pred. No. 3,36-79;
Matches 274; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

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DB 61 GACCTTAAGTCCCGGGTGTGCGCAGATCGTGGCGAGTTTACTTGTGCGCGAGG 120
QY 121 GGGCCAGGTTGGTGTGCGCGCAGCTCGGAAGACTTGGAGCGGTGCAACTGTGGG 180
DB 121 GGGCCAGGTTGGTGTGCGCGCAGCTCGGAAGACTTGGAGCGGTGCAACTGTGGG 180
QY 181 AGAGCCCACTATCCCAAGCGCGCTCGATCCGAGGGAAGTCTTGGGCAACCGAGA 240
DB 181 AGAGCTACGCTATCCCAAGCGCGCTCGATCCGAGGGAAGTCTTGGGCTCAAGCCGAG 240
QY 241 TATCCATGAGCTCTTTACGTAATGAGGGTTGCGGGTGGGCAANNATG 288
DB 241 TACCTTGAGCTCTTTATGGCAATGAGGGCTGTGGGTGGGAGGGATGG 288

RESULT 15
US-08-290-665A-139
Sequence 139, Application US/0829065A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BORK, J., MILLER, R.H. AND
APPLICANT: PORCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 139:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z4
US-08-290-665A-139

Query Match 85.4%; Score 264.8; DB 2; Length 573;

Best Local Similarity 90.6%; Pred. No. 2.1e-78;
Matches 281; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

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   |||||
Db 1 ATAGACGCGAATCTTAACCTCAAGAAAAACCAAGTAACACCAACCGCCGCCCATG 60

QY 61 GACGTTAAGTCCCGGCTGGTGGCCAGATCGTTGGCGGAGTTTACTTGTGGCCGCGAGG 120
   |||||
Db 61 GACGTTAAGTCCCGGCTGGTGGCCAGATCGTTGGCGGAGTTTACTTGTGGCCGCGAGG 120

QY 121 GGCCTCCAGTTGGGTGTGGCGCGGACTCGGAAGAATTGGAGCGGTGCAACCTCGTGGG 180
   |||||
Db 121 GGCCTCCAGTTGGGTGTGGCGCGGACTCGGAAGAATTGGAGCGGTGCAACCTCGTGGG 180

QY 181 AGAGCGCAACTTATCCCAAGGCGCGTCGATCCGAGGGAAGTCTTGCGCAAGCCAGGA 240
   |||||
Db 181 AGAGCGCAACTTATCCCAAGGCGCGTCGATCCGAGGGAAGTCTTGCGCAAGCCAGGA 240

QY 241 TATCCATGGGCTCTTTACGGTAATGAGGTTGGCGGTTGGGCAANNATGGCTCTTGCCCCC 300
   |||||
Db 241 TATCCATGGGCTCTTTACGGTAATGAGGTTGGCGGTTGGGCAANNATGGCTCTTGCCCCC 300

QY 301 CGCGGTTCTC 310
   |||||
Db 301 CGCGGTTCTC 310
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Job time : 78.0414 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-29

Perfect score: 447
Sequence: 1 gaaggagatcatttgcacac.....aagatgcattgttccatc 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length DB | ID | Description |
|------------|-------|-------------|-----------|----|---------------------------------------|
| 1 | 446.2 | 90.8 | 447 | 3 | US-08-836-075A-29 Sequence 29, Appl |
| 2 | 402.6 | 90.1 | 447 | 3 | US-08-836-075A-37 Sequence 37, Appl |
| 3 | 382.2 | 85.5 | 447 | 3 | US-08-836-075A-31 Sequence 31, Appl |
| 4 | 379 | 84.8 | 447 | 3 | US-08-836-075A-35 Sequence 35, Appl |
| 5 | 377.4 | 84.4 | 447 | 3 | US-08-836-075A-33 Sequence 33, Appl |
| 6 | 329.4 | 73.7 | 579 | 3 | US-09-878-281A-118 Sequence 118, Appl |
| 7 | 329.4 | 73.7 | 579 | 3 | US-09-878-281A-185 Sequence 185, Appl |
| 8 | 327.8 | 73.3 | 579 | 3 | US-09-878-281A-187 Sequence 187, Appl |
| 9 | 321.4 | 71.9 | 579 | 3 | US-09-878-281A-167 Sequence 167, Appl |
| 10 | 316.6 | 70.8 | 579 | 3 | US-09-878-281A-183 Sequence 183, Appl |
| 11 | 303.8 | 68.0 | 579 | 3 | US-09-878-281A-169 Sequence 169, Appl |
| 12 | 297.8 | 66.6 | 579 | 3 | US-09-878-281A-171 Sequence 171, Appl |
| 13 | 296.2 | 66.3 | 579 | 3 | US-09-878-281A-181 Sequence 181, Appl |
| 14 | 294.6 | 65.9 | 579 | 3 | US-09-878-281A-173 Sequence 173, Appl |
| 15 | 288.6 | 64.6 | 447 | 3 | US-08-836-075A-39 Sequence 39, Appl |
| 16 | 287 | 64.2 | 579 | 3 | US-09-878-281A-177 Sequence 177, Appl |
| 17 | 285.4 | 63.8 | 579 | 3 | US-09-878-281A-120 Sequence 120, Appl |
| 18 | 285.4 | 63.8 | 579 | 3 | US-09-878-281A-175 Sequence 175, Appl |
| 19 | 277 | 62.0 | 579 | 3 | US-09-878-281A-179 Sequence 179, Appl |
| 20 | 266.2 | 59.6 | 574 | 3 | US-08-878-281A-122 Sequence 122, Appl |
| 21 | 266.2 | 59.6 | 579 | 3 | US-08-878-281A-189 Sequence 189, Appl |
| 22 | 240.4 | 53.8 | 576 | 2 | US-08-086-428B-42 Sequence 42, Appl |
| 23 | 240.4 | 53.8 | 576 | 2 | US-08-086-428B-43 Sequence 43, Appl |
| 24 | 240.4 | 53.8 | 576 | 2 | US-08-468-570-42 Sequence 42, Appl |

| | | | | | |
|----|-------|------|-------|---|-------------------------------------|
| 25 | 240.4 | 53.8 | 576 | 2 | US-08-468-570-43 Sequence 43, Appl |
| 26 | 240.4 | 53.8 | 576 | 2 | US-08-290-665A-42 Sequence 42, Appl |
| 27 | 240.4 | 53.8 | 576 | 2 | US-08-290-665A-43 Sequence 43, Appl |
| 28 | 240.4 | 53.8 | 576 | 3 | US-08-466-601A-42 Sequence 42, Appl |
| 29 | 240.4 | 53.8 | 576 | 3 | US-08-466-601A-43 Sequence 43, Appl |
| 30 | 240.4 | 53.8 | 576 | 6 | PCT-US95-10398-42 Sequence 42, Appl |
| 31 | 240.4 | 53.8 | 576 | 6 | PCT-US95-10398-43 Sequence 43, Appl |
| 32 | 229 | 51.2 | 9401 | 3 | US-08-432-693-1 Sequence 1, Appl |
| 33 | 229 | 51.2 | 9416 | 3 | US-08-811-566-19 Sequence 19, Appl |
| 34 | 229 | 51.2 | 9416 | 3 | US-09-034-756-19 Sequence 19, Appl |
| 35 | 229 | 51.2 | 9539 | 3 | US-09-014-416-2 Sequence 2, Appl |
| 36 | 229 | 51.2 | 9646 | 3 | US-08-811-566-1 Sequence 1, Appl |
| 37 | 229 | 51.2 | 9646 | 3 | US-09-034-756-1 Sequence 1, Appl |
| 38 | 229 | 51.2 | 10803 | 3 | US-10-259-275-17 Sequence 17, Appl |
| 39 | 227.4 | 50.9 | 501 | 2 | US-08-483-695-2 Sequence 2, Appl |
| 40 | 227.4 | 50.9 | 501 | 2 | US-08-483-695-27 Sequence 27, Appl |
| 41 | 227.4 | 50.9 | 501 | 2 | US-07-965-285-2 Sequence 2, Appl |
| 42 | 227.4 | 50.9 | 501 | 2 | US-07-965-285-27 Sequence 27, Appl |
| 43 | 227.4 | 50.9 | 501 | 2 | US-08-487-231-2 Sequence 2, Appl |
| 44 | 227.4 | 50.9 | 501 | 2 | US-08-487-231-27 Sequence 27, Appl |
| 45 | 227.4 | 50.9 | 501 | 3 | US-09-201-912-2 Sequence 2, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-29
; Sequence 29, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 29:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

Query Match 85.5%; Score 382.2; DB 3; Length 447;
Best Local Similarity 90.6%; Pred. No. 2.8e-115;
Matches 405; Conservative 2; Mismatches 40; Indels 0; Gaps 0;
QY 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
QY 61 GCACTCTCTCGTGCCTGACTGTCGCCGCTTCCGCACTCACTATGCGAATGTCGGGC 120
DB 61 GCACTCTCTCGTGCCTGACTGTCGCCGCTTCCGCACTCACTATGCGAATGTCGGGC 120
QY 121 ATTACTATGTCACCATGATGTCGCCGCAATTCAGCATATGATGAGCGCGACCATCAG 180
DB 121 ATTACTATGTCACCATGATGTCGCCGCAATTCAGCATATGATGAGCGCGACCATCAG 180
QY 181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGAGGGAATGTCACGTTGCTG 240
DB 181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGAGGGAATGTCACGTTGCTG 240
QY 241 GTGAGCCCTTACCCCTTACCGTGCAGGCGCATACATCGCGCGCATGAGTCTTGC 300
DB 241 GTGAGCCCTTACCCCTTACCGTGCAGGCGCATACATCGCGCGCATGAGTCTTGC 300
QY 301 AGTCATGTGATCTGATGTCGAGGCGCGCATGTTGTCACGCTTTCATCGGGGAT 360
DB 301 AGTCATGTGATCTGATGTCGAGGCGCGCATGTTGTCACGCTTTCATCGGGGAT 360
QY 361 TTGTGTGAGGCTGTTGTTCTAGTGCATGATGTTCTTTCCGACCAAGCGCCACTG 420
DB 361 TTGTGTGAGGCTGTTGTTCTAGTGCATGATGTTCTTTCCGACCAAGCGCCACTG 420
QY 421 ACTACTCAAGATTGCAATGTTTCATC 447
DB 421 ACTACTCAAGATTGCAATGTTTCATC 447

RESULT 4
US-08-836-075A-35
Sequence 35, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

Query Match 84.8%; Score 379; DB 3; Length 447;
Best Local Similarity 89.5%; Pred. No. 3.2e-114;
Matches 400; Conservative 6; Mismatches 41; Indels 0; Gaps 0;
QY 1 GACGGGATCAATTTTGGACAAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 1 GACGGGATCAATTTTGGACAAGGGAATATTCGCGTGTCTTTCTATCTTCTCTTG 60
QY 61 GCACTCTCTCGTGCCTGACTGTCGCCGCTTCCGCACTCACTATGCGAATGTCGGGC 120
DB 61 GCACTCTCTCGTGTGACTGTCGCCGCTTCCGCACTCACTATGCGAATGTCGGGC 120
QY 121 ATTACTATGTCACCATGATGTCGCCGCAATTCAGCATATGATGAGCGCGACCATCAG 180
DB 121 ATTACTATGTCACCATGATGTCGCCGCAATTCAGCATATGATGAGCGCGACCATCAG 180
QY 181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGAGGGAATGTCACGTTGCTG 240
DB 181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGAGGGAATGTCACGTTGCTG 240
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DB 241 GTGAGCCCTTACCCCTTACCGTGCAGGCGCATACATCGCGCGCATGAGTCTTGC 300
QY 301 AGTCATGTGATCTGATGTCGAGGCGCGCATGTTGTCACGCTTTCATCGGGGAT 360
DB 301 AGTCATGTGATCTGATGTCGAGGCGCGCATGTTGTCACGCTTTCATCGGGGAT 360

QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
Db 520 ACTACGACGACCTGCAATTTGTCATC 546

RESULT 7

US-09-878-281A-185
; Sequence 185, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-185

Query Match 73.7%; Score 329.4; DB 3; Length 579;
Best Local Similarity 83.2%; Pred. No. 6,8e-98;
Matches 372; Conservative 2; Mismatches 73; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
Db 100 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 160 GCACTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACTATGTCACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 180
Db 220 GTCTACACGTCACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 279
QY 181 ATCTTGACCTCCGAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
Db 280 ATCTTGACCTCCGAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 339
QY 241 GTAGCCCTTACCCCTGACCGTCGACGCGCATACATGCGCGCATGAGTCTTACG 300
Db 340 GTAGCCCTTACCCCTGACCGTCGACGCGCATACATGCGCGCATGAGTCTTACG 399
QY 301 AGTCATGTGACTTGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db 400 AGACACGTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 TTTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db 460 TTTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
Db 520 ACTACGACGACCTGCAATTTGTCATC 546

RESULT 8

US-09-878-281A-187
; Sequence 187, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-187

Query Match 73.3%; Score 327.8; DB 3; Length 579;
Best Local Similarity 83.0%; Pred. No. 2.3e-97;
Matches 371; Conservative 2; Mismatches 74; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
Db 100 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 160 GCACTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATTACTATGTCACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 180
Db 220 GTCTACACGTCACCAATGATGATGATGATGATGATGATGATGATGATGATGATG 279
QY 181 ATCTTGACCTCCGAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 240
Db 280 ATCTTGACCTCCGAGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 339
QY 241 GTAGCCCTTACCCCTGACCGTCGACGCGCATACATGCGCGCATGAGTCTTACG 300
Db 340 GTAGCCCTTACCCCTGACCGTCGACGCGCATACATGCGCGCATGAGTCTTACG 399
QY 301 AGTCATGTGACTTGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
Db 400 AGACACGTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 TTTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db 460 TTTGTGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACTCAAGATTGCAATTTGTCATC 447
Db 520 ACTACGACGACCTGCAATTTGTCATC 546

RESULT 9

US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

Query Match 71.9%; Score 321.4; DB 3; Length 579;
Best Local Similarity 82.1%; Pred. No. 2.9e-95;
Matches 367; Conservative 2; Mismatches 78; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
Db 100 GACGGGATCAATTTTGCAACAGGAACTCCCGGTTGCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

```
Db      160 GCGCTCCCTCGTGCCTGACTGTTCCACATCGGCCCTTACTATCCCAATGCTTCGGGC 219
Qy      121 ATTATCATGTGACCAATGATGCGCAATTGACGATAGGTATGAGGCGGCATCAC 180
Db      220 ATTATCATGTGACCAATGATGCGCAATTGACGATAGGTATGAGGCGGCATCAC 279
Qy      181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 240
Db      280 ATCTTACACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 339
Qy      241 GTAGCCCTTACCCCTACCGTCGACGCCCATATCGCGCGGCATTGAGTCTTACGG 300
Db      340 GTGCGCCCTCACTCCACAGTACGCTCCGCAATCCCGTGTCTCCGTTGAGCCCTTCGG 399
Qy      301 AGTCATGTGACCTTATGATGGTGGGGCGCCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
Db      400 CGTCATGTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 TTATGTGAGGCTTGTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db      460 TTGCGCGTGTGCTTATCTTGTGTGGGCAATGTTCACTTCCACCGCAGCTCACTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACGACGACTGCAATGTTCCATC 546
```

```
RESULT 10
US-09-878-281A-183
; Sequence 183, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 183
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-183
```

Query Match 70.8%; Score 316.6; DB 3; Length 579;
Best Local Similarity 81.4%; Pred. No. 1,1e-93;
Matches 364; Conservative 2; Mismatches 81; Indels 0; Gaps 0;

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Qy      1 GAGCGGATCAATTTTGAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCTCTG 60
Db      100 GACGGATTAATTAATGCAACGGAATCTCCCGGTTGCTCTTCTATCTTCTCTG 159
Qy      61 GCACTCCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCTCGGC 120
Db      160 GCACTTCTCTGCTGCTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCTCGGC 219
Qy      121 ATTATCATGTGACCAATGATGCGCAATTGACGATAGTATGAGGCGGCATCAC 180
Db      220 GTATATCATATCAACATGATGCTGCCGAATCGAGATAGTATGAGGCGGCATCAC 279
Qy      181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 240
Db      280 ATCTTACACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 339
Qy      241 GTAGCCCTTACCCCTACCGTCGACGCCCATATCGCGCGGCATTGAGTCTTACGG 300
Db      340 GTGCGCCCTCACTCCACAGTACGCTCCGCAATCCCGTGTCTCCGTTGAGCCCTTCGG 399
Qy      301 AGTCATGTGACCTTATGATGGTGGGGCGCCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
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Db      400 AGTCATGTGACCTTATGATGGTGGGGCGCCACCTGTTTGTTCAGCCCTTTACATCGGGAT 459
Qy      361 TTATGTGAGGCTTGTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db      460 TTGCGCGTGTGCTTATCTTGTGTGGGCAATGTTCACTTCCACCGCAGCTCACTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACGACGACTGCAATGTTCCATC 546
```

```
RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169
```

Query Match 68.0%; Score 303.8; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 1,7e-89;
Matches 356; Conservative 2; Mismatches 89; Indels 0; Gaps 0;

```
Qy      1 GAGCGGATCAATTTTGAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCTCTG 60
Db      100 GACGGATTAATTAATGCAACGGAATCTCCCGGTTGCTCTTCTATCTTCTCTG 159
Qy      61 GCACTCCTCTGCTGACTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCTCGGC 120
Db      160 GCACTTCTCTGCTGCTGCTGCTCCCGCTTCGCGCATCACTATCGCAATGTCTCGGC 219
Qy      121 ATTATCATGTGACCAATGATGCGCAATTGACGATAGTATGAGGCGGCATCAC 180
Db      220 GTATATCATATCAACATGATGCTGCCGAATCGAGATAGTATGAGGCGGCATCAC 279
Qy      181 ATCTTGACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 240
Db      280 ATCTTACACCTCCAGGTTGCGTCCCTGCGTGAAGAGGGAATCAGTACGTTGCTGG 339
Qy      241 GTAGCCCTTACCCCTACCGTCGACGCCCATATCGCGCGGCATTGAGTCTTACGG 300
Db      340 GTGCGCCCTCACTCCACAGTACGCTCCGCAATCCCGTGTCTCCGTTGAGCCCTTCGG 399
Qy      301 AGTCATGTGACCTTATGATGGTGGGGCGCCACCTGTTTGTTCAGCCCTTTACATCGGGAT 360
Db      400 CGCATGTGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 TTATGTGAGGCTTGTCTTCTAGTGTGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db      460 TTGCGCGTGTGCTTATCTTGTGTGGGCAATGTTCACTTCCACCGCAGCTCACTGG 519
Qy      421 ACTACTCAAGATTGCAATTGTTCCATC 447
Db      520 ACCACGACGACTGCAATGTTCCATC 546
```

```
RESULT 12
US-09-878-281A-171
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
```

;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; TITLE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 171
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 66.6%; Score 297.8; DB 3; Length 579;
Best Local Similarity 79.0%; Pred. No. 1.6e-87;
Matches 351; Conservative 1; Mismatches 93; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGCAACAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAACATATGCAACAGGGAACCTTCTGTTGCTCTTTCTATCTTCTCTG 159
QY 61 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTCACTATGCGCATGTCTCGGGC 120
DB 160 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTGCAATATCAACAACACTCGGGC 219
QY 121 ATTACTATGTACCAATGATGCGCGAATTCAAGCATAGTATGAGCGGACCATCAC 180
DB 220 ATTACTATGTACCAATGATGCGCGCTTACTATGCTATGAGGAGCATCTACAC 279
QY 181 ATCTTGACCTCCAGAGTTGGTGCCCTGCGTGAAGAGAGGGAATCACTGTTGCTG 240
DB 280 ATCTTGACCTCCAGAGTTGGTGCCCTGCTGTAGAACTGGAAACAGTCTCGGTCTG 339
QY 241 GTAGCCCTTACCCCTACCGTGCAGCGCCATACATGCGCGGCACTTGAAGTCTTAC 300
DB 340 GTAGCCCTTACCCCGACGCTGCGCGCCATACCTTGGCGCTTCACTGAGTCCATCG 399
QY 301 AGTCATGTGACCTGATGATGATGAGGGGCGGCACTGTTTCAAGCCCTTACATGGGGAT 360
DB 400 CGTCACGTGATTTGATGATGAGGGGCACTGCTACATTTGCTCAGACTCTTACGTTGGGAC 459
QY 361 TTATGTGAGGCTTGTCTTCTAGTGTGATGATGTTCTTTTCCGACCAAGCGGCACTG 420
DB 460 CTGAGGGGGGCAATTTCTTACGAGGGGCAAGTGTTCACCTTCCGGCCCGCTCTCATTTG 519
QY 421 ACTACTCAAGATTGCAATTTGTTCCATC 447
DB 520 ACCACCCAGAGTGCAATTTGTTCCACC 546

RESULT 13
US-09-878-281A-181
;; Sequence 181, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; TITLE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 181
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (152)..(152)
;; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

Query Match 66.3%; Score 296.2; DB 3; Length 579;
Best Local Similarity 78.9%; Pred. No. 5.4e-87;
Matches 352; Conservative 0; Mismatches 94; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGCAACAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAACATATGCAACAGGGAACCTTCCGTTGCTCTTTCTATCTTCTCTG 159
QY 61 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTCACTATGCGCATGTCTCGGGC 120
DB 160 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTGCAATATCAACAACACTCGGGC 219
QY 121 ATTACTATGTACCAATGATGCGCGAATTCAAGCATAGTATGAGCGGACCATCAC 180
DB 220 ATTACTATGTACCAATGATGCGCGCTTACTATGCTATGAGGAGCATCTACAC 279
QY 181 ATCTTGACCTCCAGAGTTGGTGCCCTGCGTGAAGAGGGAATCACTGTTGCTG 240
DB 280 ATCTTGACCTCCAGAGTTGGTGCCCTGCTGTAGAACTGGAAACAGTCTCGGTCTG 339
QY 241 GTAGCCCTTACCCCTACCGTGCAGCGCCATACATGCGCGGCACTTGAAGTCTTAC 300
DB 340 GTAGCCCTTACCCCGACGCTGCGCGCCATACCTTGGCGCTTCACTGAGTCCATCG 399
QY 301 AGTCATGTGACCTGATGATGATGAGGGGCGGCACTGTTTCAAGCCCTTACATGGGGAT 360
DB 400 CGTCACGTGATTTGATGATGAGGGGCACTGCTACATTTGCTCAGACTCTTACGTTGGGAC 459
QY 361 TTATGTGAGGCTTGTCTTCTAGTGTGATGATGTTCTTTTCCGACCAAGCGGCACTG 420
DB 460 CTGAGGGGGGCAATTTCTTACGAGGGGCAAGTGTTCACCTTCCGGCCCGCTCTCATTTG 519
QY 421 ACTACTCAAGATTGCAATTTGTTCCAT 446
DB 520 ACCACCTAGAGTGCAATTTGTTCCAT 545

RESULT 14
US-09-878-281A-173
;; Sequence 173, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; TITLE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 173
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 65.9%; Score 294.6; DB 3; Length 579;
Best Local Similarity 78.5%; Pred. No. 1.8e-86;
Matches 351; Conservative 1; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTTTGCAACAGGGAACCTCCCGGTTGCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAACATATGCAACAGGGAACCTTCCGTTGCTCTTTCTATCTTCTCTG 159
QY 61 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTCACTATGCGCATGTCTCGGGC 120
DB 160 GCACTCTCTGCGCTGAGCTGTCCCGCTTCCGCTGCAATATCAACAACACTCGGGC 219
QY 121 ATTACTATGTACCAATGATGCGCGAATTCAAGCATAGTATGAGCGGACCATCAC 180
DB 220 ATTACTATGTACCAATGATGCGCGCTTACTATGCTATGAGGAGCATCTACAC 279
QY 181 ATCTTGACCTCCAGAGTTGGTGCCCTGCGTGAAGAGGGAATCACTGTTGCTG 240

|||||
Db 280 ATCTTGATCTTCCAGAGATGCGTCCCTGTGTGAGAACTGGGAACAGTACGATGCTGG 339
QY 241 GTAGCCCTTACCCCTACCGTGGAGCGGCACATCGCGCGCCACTTGGTCTTACGG 300
Db 340 ATAGCCCTTACCCCTACCGTGGAGCGGCACATCGCGCGCCACTTGGTCTTACGG 399
QY 301 AGTCATGTGACTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 400 CGTATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 460 CTGTGCGGAGGCAATTTCTAGTGGCGCAGATGTTCACTTCAAGCCCGCGCTGCACTGG 519
QY 421 ACTACTGAGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 447
Db 520 ACCACCGAGAGTGCATTTGTCATC 546

RESULT 15

US-08-836-075A-39
; Sequence 39; Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-39

Query Match 64.6%; Score 288.6; DB 3; Length 447;
Best Local Similarity 77.9%; Pred. No. 1.5e-84;
Matches 348; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

QY 1 GAGGGATCAATTTTGCACAGGGAACCTCCCGTGTGCTCTTTCTATCTTCTCTTGG 60
Db 1 GAGGGATCAATTTTGCACAGGGAACCTCCCGTGTGCTCTTTCTATCTTCTCTTGG 60
QY 61 GCACTCTCTCGTGCCTGACTGTCCCGCTTGGCCATCACTATGCAATGTCTGGGC 120
Db 61 GCACTCTCTCGTGCCTGACTGTCCCGCTTGGCCATCACTATGCAATGTCTGGGC 120
QY 121 ATTACTATGTCACCAATGATTTGCGGAAATTGAAGATATGTATGAGGCCGACATCAG 180
Db 121 ATTACTATGTCACCAATGATTTGCGGAAATTGAAGATATGTATGAGGCCGACATCAG 180
QY 181 ATCTTGACCTCCAGAGTTGCGTCCCTGCTGAGAGAGAGAGATCACTGCTTGG 240
Db 181 ATCTTGACCTCCAGAGTTGCGTCCCTGCTGAGAGAGAGATCACTGCTTGG 240
QY 241 GTAGCCCTTACCCCTTACCGTGGAGCGGCATATGATGAGCGGCACTTGAAGTCTTACGG 300
Db 241 GTAGCCCTTACCCCTTACCGTGGAGCGGCATATGATGAGCGGCACTTGAAGTCTTACGG 300
QY 301 AGTCATGTGACTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 AGTCATGTGACTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
QY 361 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
Db 361 TTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
QY 421 ACTACTGAGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 447
Db 421 ACTACTGAGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 447

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Job time : 112.089 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-31
Perfect score: 447
Sequence: 1 gacggagcatcattgcacac.....aggatgcattgtctatc 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

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9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 447 | 100.0 | 447 | 3 | US-08-836-075A-31 |
| 2 | 384.6 | 86.0 | 447 | 3 | US-08-836-075A-33 |
| 3 | 384.2 | 86.0 | 447 | 3 | US-08-836-075A-37 |
| 4 | 383 | 85.7 | 447 | 3 | US-08-836-075A-35 |
| 5 | 382.2 | 85.5 | 447 | 3 | US-08-836-075A-29 |
| 6 | 349.4 | 78.2 | 579 | 3 | US-09-878-281A-185 |
| 7 | 347.8 | 77.8 | 574 | 3 | US-09-878-281A-118 |
| 8 | 346.2 | 77.4 | 579 | 3 | US-09-878-281A-187 |
| 9 | 341.4 | 76.4 | 579 | 3 | US-09-878-281A-183 |
| 10 | 330.2 | 73.9 | 579 | 3 | US-09-878-281A-167 |
| 11 | 317.4 | 71.0 | 579 | 3 | US-09-878-281A-169 |
| 12 | 311 | 69.6 | 579 | 3 | US-09-878-281A-171 |
| 13 | 311 | 69.6 | 579 | 3 | US-09-878-281A-173 |
| 14 | 294.6 | 65.9 | 579 | 3 | US-09-878-281A-181 |
| 15 | 293.4 | 65.6 | 574 | 3 | US-09-878-281A-120 |
| 16 | 293.4 | 65.6 | 579 | 3 | US-09-878-281A-175 |
| 17 | 293.4 | 65.6 | 579 | 3 | US-09-878-281A-177 |
| 18 | 287 | 64.2 | 447 | 3 | US-08-836-075A-39 |
| 19 | 279 | 62.4 | 579 | 3 | US-09-878-281A-179 |
| 20 | 272.6 | 61.0 | 574 | 3 | US-09-878-281A-122 |
| 21 | 272.6 | 61.0 | 579 | 3 | US-09-878-281A-189 |
| 22 | 258.8 | 57.9 | 576 | 2 | US-08-086-428B-42 |
| 23 | 258.8 | 57.9 | 576 | 2 | US-08-468-570-42 |
| 24 | 258.8 | 57.9 | 576 | 2 | US-08-290-665A-42 |

| | | | | | | |
|----|-------|------|-------|---|-------------------|-------------------|
| 25 | 258.8 | 57.9 | 576 | 3 | US-08-466-601A-42 | Sequence 42, App1 |
| 26 | 258.8 | 57.9 | 576 | 6 | PCT-US95-10398-42 | Sequence 42, App1 |
| 27 | 255.6 | 57.2 | 576 | 2 | US-08-086-428B-43 | Sequence 43, App1 |
| 28 | 255.6 | 57.2 | 576 | 2 | US-08-468-570-43 | Sequence 43, App1 |
| 29 | 255.6 | 57.2 | 576 | 2 | US-08-290-665A-43 | Sequence 43, App1 |
| 30 | 255.6 | 57.2 | 576 | 2 | US-08-466-601A-43 | Sequence 43, App1 |
| 31 | 255.6 | 57.2 | 576 | 6 | PCT-US95-10398-43 | Sequence 43, App1 |
| 32 | 226.4 | 50.6 | 576 | 2 | US-08-086-428B-44 | Sequence 44, App1 |
| 33 | 226.4 | 50.6 | 576 | 2 | US-08-468-570-44 | Sequence 44, App1 |
| 34 | 226.4 | 50.6 | 576 | 2 | US-08-290-665A-44 | Sequence 44, App1 |
| 35 | 226.4 | 50.6 | 576 | 3 | US-08-466-601A-44 | Sequence 44, App1 |
| 36 | 226.4 | 50.6 | 576 | 6 | PCT-US95-10398-44 | Sequence 44, App1 |
| 37 | 226.2 | 50.6 | 9599 | 3 | US-09-014-416-2 | Sequence 2, App1 |
| 38 | 226.2 | 50.6 | 9646 | 3 | US-08-811-566-1 | Sequence 1, App1 |
| 39 | 226.2 | 50.6 | 9646 | 3 | US-09-034-756-1 | Sequence 1, App1 |
| 40 | 226.2 | 50.6 | 10803 | 3 | US-10-259-275-17 | Sequence 17, App1 |
| 41 | 224.6 | 50.2 | 12980 | 3 | US-08-811-566-5 | Sequence 5, App1 |
| 42 | 224.6 | 50.2 | 12980 | 3 | US-09-034-756-5 | Sequence 5, App1 |
| 43 | 223.4 | 50.0 | 1018 | 3 | US-08-444-818-151 | Sequence 151, App |
| 44 | 223 | 49.9 | 9401 | 2 | US-08-432-693-1 | Sequence 1, App1 |
| 45 | 223 | 49.9 | 9416 | 3 | US-08-811-566-19 | Sequence 19, App1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-31
; Sequence 31, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERBET
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 31:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-31

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 4,1e-128;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTGCTTTTCTATCTTCTCTTG 60
DB 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTGCTTTTCTATCTTCTCTTG 60
QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTTGACCTTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 ATCTTGACCTTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACTCTTACCGCTGCGACGCGCATATCGCGCGCATCTGCTGCGG 300
DB 241 GTGGCCCTTACTCTTACCGCTGCGACGCGCATATCGCGCGCATCTGCTGCGG 300
QY 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
DB 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
QY 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
DB 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
QY 421 ACTGCCAGATTGCAATGTTCTATC 447
DB 421 ACTGCCAGATTGCAATGTTCTATC 447
```

RESULT 2

US-08-836-075A-33
Sequence 33, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-33

Query Match 86.0%; Score 384.6; DB 3; Length 447;
Best Local Similarity 91.3%; Pred. No. 7.7e-109;
Matches 408; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

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QY 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTGCTTTTCTATCTTCTCTTG 60
DB 1 GACGGATCAATTATGCAACAGGAACTTCCCGATTGCTTTTCTATCTTCTCTTG 60
QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
DB 121 ATCTACCACTGACCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTTGACCTTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 ATCTTGACCTTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACTCTTACCGCTGCGACGCGCATATCGCGCGCATCTGCTGCGG 300
DB 241 GTGGCCCTTACTCTTACCGCTGCGACGCGCATATCGCGCGCATCTGCTGCGG 300
QY 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
DB 301 AGTCATGTGATCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
QY 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
DB 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
QY 421 ACTGCCAGATTGCAATGTTCTATC 447
DB 421 ACTGCCAGATTGCAATGTTCTATC 447
```

RESULT 3

US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA

ZIP: 77210-4433
COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/836.075A
  FILING DATE: 21 Apr 1997
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: PCT/EP95/04155
    FILING DATE: 23 Oct 1995
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: EP 94870166.9
    FILING DATE: 21 Oct 1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: EP 95870076.7
    FILING DATE: 28 Jun 1995
  ATTORNEY/AGENT INFORMATION:
    NAME: KAMMERER, PATRICIA A.
    REGISTRATION NUMBER: 29,775
    REFERENCE/DOCKET NUMBER: INNS:004
  INFORMATION FOR SEQ ID NO: 37:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 447 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: cDNA
    HYPOTHEICAL: NO
    ANTI-SENSE: NO
  US-08-836-075A-37

```

```

Query Match      86.0%; Score 384.2; DB 3; Length 447;
Best Local Similarity 91.1%; Pred. No. 1e-108;
Matches 407; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
   |||||
DB 1 GACGGGATTAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60

QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
   |||||
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

QY 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
   |||||
DB 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180

QY 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
   |||||
DB 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240

QY 241 GTGGCCCTTACTCTACCGTGGACGGCCATACATCGGCGCAGCTTGAATCT 300
   |||||
DB 241 GTGGCCCTTACTCTACCGTGGACGGCCATACATCGGCGCAGCTTGAATCT 300

QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
   |||||
DB 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360

QY 361 TTGTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
   |||||
DB 361 CTGTGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420

QY 421 ACTGCCCAAGATGCAATGTTTCATC 447
   |||||
DB 421 ACTGCCCAAGATGCAATGTTTCATC 447

```

```

RESULT 4
US-08-836-075A-35
; Sequence 35, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

```

```

APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
  ADDRESSEE: ARNOLD, WHITE & DURKEE
  STREET: P.O. BOX 4433
  CITY: HOUSTON
  STATE: TEXAS
  COUNTRY: USA
  ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/08/836.075A
  FILING DATE: 21 Apr 1997
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: PCT/EP95/04155
    FILING DATE: 23 Oct 1995
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: EP 94870166.9
    FILING DATE: 21 Oct 1994
  PRIOR APPLICATION DATA:
    APPLICATION NUMBER: EP 95870076.7
    FILING DATE: 28 Jun 1995
  ATTORNEY/AGENT INFORMATION:
    NAME: KAMMERER, PATRICIA A.
    REGISTRATION NUMBER: 29,775
    REFERENCE/DOCKET NUMBER: INNS:004
  INFORMATION FOR SEQ ID NO: 35:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 447 base pairs
      TYPE: nucleic acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: cDNA
    HYPOTHEICAL: NO
    ANTI-SENSE: NO
  US-08-836-075A-35

```

```

Query Match      85.7%; Score 383; DB 3; Length 447;
Best Local Similarity 90.4%; Pred. No. 2.4e-108;
Matches 404; Conservative 4; Mismatches 39; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60
   |||||
DB 1 GACGGGATTAATTATGCAAGGGAACCTTCGCGTTCCTTTCTATCTCTCTG 60

QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
   |||||
DB 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

QY 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
   |||||
DB 121 ATCTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 180

QY 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240
   |||||
DB 181 ATCTGACCTTCCAGGTTGCGTCCCTGCTGAGAACTGGGAATCACTGCTG 240

QY 241 GTGGCCCTTACTCTACCGTGGACGGCCATACATCGGCGCAGCTTGAATCT 300
   |||||
DB 241 GTGGCCCTTACTCTACCGTGGACGGCCATACATCGGCGCAGCTTGAATCT 300

QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
   |||||
DB 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360

```

| | | | |
|----|-----|--|-----|
| Oy | 36 | TTCGAGCGGGCTGTCTTGGTTGCAGATGTTCTTCCACACAGCGCACTGG | 420 |
| Dd | 361 | TTCGTGCGCGCTGTCTTGGTTGCAGATGTTCTCTTYCAGCTCGCGCACCTGG | 420 |
| Oy | 421 | ACTGCCAGAGATTGCATTGTTTATC | 447 |
| Dd | 421 | ACTACCAGAGATTGCATTGTTTATC | 447 |

RESULT 5

```

US-08-836-075A-29
: Sequence 29, Application us/08836075A
: Patent No. 6180768
:
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEBERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
:
: COUNTRY: USA
: ZIP: 77210-4433
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft Word 6.0 / ASCII text output
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836, 075A
: FILING DATE: 21 Apr 1997
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95670076.7
: FILING DATE: 28 Jun 1995
:
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29, 775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ. ID NO: 29:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
:
US-08-836-075A-29

```

[illegible]

| | | | |
|----|-----|---|-----|
| Db | 121 | ATTACCTAAATGACCAGTAATGATTGGCCGAATTCAGACATAGATGATGAGGCCGACATAC | 180 |
| QY | 181 | ATCTTGACACCTTCAGAGTTGGCGTGGCCCTGCGGTGAAGAACTGAGAACTGACATGTTGCTGG | 240 |
| Db | 181 | ATTCTGACACTCCCAAGATTTGCGTGCCCTGCGGTGAAGAAAGAGGAGAAATGATACGTTGCTGG | 240 |
| QY | 241 | GTCGACCTTAATCTTACCGTCGACAGCGGCATACATCGGCGCACCGCTTGAGTCTTTCGGG | 300 |
| Db | 241 | GTCGACCTTAACCCCTTACCGTGCAGCGCATATACATCGGCGCGCCACTTGAGTCTTTCAGG | 300 |
| QY | 301 | AGTCACATGTGATCTGATGCTGGGGGGCTCCACTGTGGTCTGACGCCCTTACATCGGGGAT | 360 |
| Db | 301 | AGTCACATGTGACTTATATGATGGGGGGCCGCACTGTTGTTGAGGCCCTTACATCGGGGAT | 360 |
| QY | 361 | TTGATGAGCGGCGCTTGTCTTGTGGTGTGATGATGTTTCTTTCGACACACACGCACTGG | 420 |
| Db | 361 | TTTATGTGAGCGCTTGTGTTCTTACTAGTGTGAGATGTTCTCTTTCGACACAGGCGGCACTGG | 420 |
| QY | 421 | ACTGCCAGATTTGCAATTTGTTCTATC | 447 |
| Db | 421 | ACTACTCAGATTTGCAATTTGTTCTATC | 447 |

RESULT 6

```

US-09-878-281A-185
; Sequence 185, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-185

```

| | | | | |
|-----------------------|--------------|--------------------|----------------|-------------|
| Query Match | 78.2%; | Score 349.4; | DB 3; | Length 579; |
| Best Local Similarity | -86.4%; | Pred. No. 6.3e-98; | | |
| Matches 386; | Conservative | 0; | Mismatches 61; | Indels 0; |
| | | | | Gaps 0; |

| | | | |
|----|-----|--|-----|
| OY | I | GACGGGATCAATTATATGCAACAGGGAACTTCCCGGTTGCTTTTTCATATCTTCTTGG | 60 |
| | | | |
| | | | |
| | | | |
| Db | 100 | GACGGGATCAATTATATGCAACAGGGAACTTCCCGGTTGCTTTTTCATATCTTCTTGG | 159 |
| | | | |
| OY | 61 | GCACTCCTCTCGGCGCTGACTGTTCCCGGCTTCGGGCATTACTACACCGCAACCTCGGGC | 120 |
| | | | |
| | | | |
| | | | |
| Db | 160 | GCACTTCTCTCGGCGCTGACTGTTCCCGGCTTCGGGCATTACTACACCGCAACCTCGGGC | 219 |
| | | | |
| OY | 121 | ATCTACACGTCACCAATGACTGCCCGAATTGAGCATATGTTATGAGCGGACCAAC | 180 |
| | | | |
| Db | 220 | GTCACACGTCACCAATGACTGCCCGAATTGAGCATATGTTATGAGCGGACCAAC | 279 |
| | | | |
| OY | 181 | ATCTTGACACTTCCAGTGTGGCGTCCGCGTGAGAACTGGGAATACGATCCGTTGG | 240 |
| | | | |
| Db | 280 | ATCTTGACACTTCCAGTGTGGCGTCCGCGTGAGAACTGGGAATACGATCCGTTGG | 339 |
| | | | |
| OY | 241 | GTCGACCTTACTCTTACCCGTCCAGCGCATCATCGCGCACCGCGTTGAGTCTTCGG | 300 |
| | | | |
| Db | 340 | GTCGACCTTACTCTTACCCGTCCAGCGCATCATCGCGCACCGCGTTGAGTCTTCGG | 399 |
| | | | |
| OY | 301 | AGTCATGTGGATCTGATGTGGGGGGCTGCACATGTTTGTCTGAGCCCTTACATGGGGAT | 360 |
| | | | |
| Db | 400 | AGACACGTGGACATGATGTGGGGGGCTGCACATGTTTGTCTGAGCCCTTACATGGGGAC | 459 |
| | | | |
| OY | 361 | TTTGTTGGCGGGCTGATCTTGGTGTGATGATGTTTCTTCCAGCACACAGCGCACTGG | 420 |
| | | | |
| Db | 460 | TTTGTTGGCGGGCTGATCTTGGTGTGATGATGTTTCTTCCAGCACACAGCGCACTGG | 519 |

QY 421 ACTGCCAGATTCGAATGTTCTATC 447
 Db 520 ACTACGACGAGCTCCATTTCTCATC 546

RESULT 7

US-09-878-281A-118
 ; Sequence 118, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 118
 ; LENGTH: 574
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-118

Query Match 77.8%; Score 347.8; DB 3; Length 574;
 Best Local Similarity 86.1%; Pred. No. 2e-97;
 Matches 385; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 60
 Db 100 GACGGATCAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 159
 QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATCTACACGTCACCAATGAGTCCGAACTCGACATGATTATGAGCGACAC 180
 Db 220 ATCTACACGTCACCAATGAGTCCGAACTCGACATGATTATGAGCGACAC 279
 QY 181 ATCTGACCTTCAGGTTGGTGGTCCCTGCGTGAATCTGGAATCAGTCA 240
 Db 280 ATCTGACCTTCAGGTTGGTGGTCCCTGCGTGAATCTGGAATCAGTCA 339
 QY 241 GTGGCCCTTACTCTTACCTGCGACGCGCATATCGGCGCATCGCTTGAG 300
 Db 340 GTGGCCCTTACTCTTACCTGCGACGCGCATATCGGCGCATCGCTTGAG 399
 QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 Db 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGTGTGGCGGCTGTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
 Db 460 TTGTGTGGCGGCTGTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 519
 QY 421 ACTGCCAGATTCGAATGTTCTATC 447
 Db 520 ACTACGACGAGCTCCATTTCTCATC 546

RESULT 8

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-187

Query Match 77.4%; Score 346.2; DB 3; Length 579;
 Best Local Similarity 85.9%; Pred. No. 6.2e-97;
 Matches 384; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 60
 Db 100 GACGGATCAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 159
 QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATCTACACGTCACCAATGAGTCCGAACTCGACATGATTATGAGCGACAC 180
 Db 220 ATCTACACGTCACCAATGAGTCCGAACTCGACATGATTATGAGCGACAC 279
 QY 181 ATCTGACCTTCAGGTTGGTGGTCCCTGCGTGAATCTGGAATCAGTCA 240
 Db 280 ATCTGACCTTCAGGTTGGTGGTCCCTGCGTGAATCTGGAATCAGTCA 339
 QY 241 GTGGCCCTTACTCTTACCTGCGACGCGCATATCGGCGCATCGCTTGAG 300
 Db 340 GTGGCCCTTACTCTTACCTGCGACGCGCATATCGGCGCATCGCTTGAG 399
 QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 Db 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGTGTGGCGGCTGTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
 Db 460 TTGTGTGGCGGCTGTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 519
 QY 421 ACTGCCAGATTCGAATGTTCTATC 447
 Db 520 ACTACGACGAGCTCCATTTCTCATC 546

RESULT 9

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-183

Query Match 76.4%; Score 341.4; DB 3; Length 579;
 Best Local Similarity 85.2%; Pred. No. 1.9e-95;
 Matches 381; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 60
 Db 100 GACGGATTAATTAATGACAGGAACTCCCGTTGCTTTTCTATCTCTCTG 159
 QY 61 GCATCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

```

Db      160 GCACTTCTTGTCGTGACGTGTTCCACCTCAGCCCGTCACTATCCGACGCGCTCGGGC 219
Qy      121 ATCTACCAAGTCACCAATAGTACCTCCGGAATCTGAGCATAGTTTATGAGCCGACACAC 180
Db      220 GTCTATCATATCAACCAATAGTACCTCCGGAATCTGAGCATAGTTTATGAGCCGACCTAC 279
Qy      181 ATCTGACACCTTGAGGTGCGTCCGCTGCGGTGAGAACTGGGAATCATGTCAGCTTGCG 240
Db      280 ATCTTACACCTCCCTGGGTGCTTACCTCTGCTGAGGGTTGGGAATCATGTCAGCTTGCG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCAGCGCATATCCGCGACCGCTTGAGTCTTCTCGG 300
Db      340 GTGGCCCTTACTCCACCGTGGCGCGCTTACGTTGGTCTCCGCTTAGAATCCCTCGG 399
Qy      301 AGTATATGATCTGATGAGTGGGCGCTGCCACTGTTTGTCTAGCCCTTTATCTGGGAT 360
Db      400 AGTCATGTGATCTGATGAGTGGTGGTCTGCTACTGTCGTCCGCTTTTATCATCGGGAC 459
Qy      361 TTGTGTGGCGGCTGTTCTTGTGTCAGATGTTTCTTCCGACACGACGCGCACTGG 420
Db      460 CTGTGCGTGGCGATTTTGTGTCAGATGTTTCTTCCAGCGCGCACTGG 519
Qy      421 ACTGCCGAGATTGCAATTGTTCTATC 447
Db      520 ACCAGCGAGACTGCAATTGTTCTATC 546

```

```

RESULT 10
US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

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Query Match      73.9%; Score 330.2; DB 3; Length 579;
Best Local Similarity 83.7%; Pred. No. 5.4e-92;
Matches 374; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

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Qy      1 GACGGGATCAATTATGCAACAGGAACTTCCCGGTGCTCTTTTCTATCTTCTCTG 60
Db      100 GACGGGATCAATTATGCAACAGGAACTTCCCGGTGCTCTTTTCTATCTTCTCTG 159
Qy      61 GCACTCCTCTGTCGTGACTGTTCCCGCTTCGCGCATTACTACCGCAACCTCGGGC 120
Db      160 GCGCTCCTCTGTCGTGACTGTTCCCGCTTCGCGCATTACTATCGCAATGCTTCGGC 219
Qy      121 ATCTACCAAGTCACCAATAGTACCTCCGGAATCTGAGCATAGTTTATGAGCCGACACAC 180
Db      220 ATTATATCATATCAACCAATAGTACCTCCGGAATGAGCATAGTTTATGAGCAACGAAATCAC 279
Qy      181 ATCTTACCACTTCCAGGTGGTGGTCCCTGCTGAGAACTGGGAATCATGTCAGCTTGCG 240
Db      280 ATCTTACCACTTCCAGGTGGTGGTCCCTGCTGAGAACTGGGAATCATGTCAGCTTGCG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCAGCGCATATCCGCGACCGCTTGAGTCTTCTCGG 300
Db      340 GTGGCCCTTACTCCACCGTGGCGCGCTTACGTTGGTCTCCGCTTAGAATCCCTCGG 399
Qy      301 AGTATATGATCTGATGAGTGGGCGCTGCCACTGTTTGTCTAGCCCTTTATCTGGGAT 360

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Db      400 CGTATGTGAGACCTGATGATGAGTGTGCCACCATGTTTCCGCTTACATCGGCGAC 459
Qy      361 TTGTGTGGCGGCGCTGTTGTTCTTGTGTCAGATGTTTCTTCCGACGAGCGCACTGG 420
Db      460 TTGTGTGGCGGCGCTTATTTCTTGTGTCAGATGTTTCTTCCAGCGGAGCTGACTGG 519
Qy      421 ACTGCCGAGATTGCAATTGTTCTATC 447
Db      520 ACCAGCTGAGACTGCAATTGTTCTATC 546

```

```

RESULT 11
US-09-878-281A-169
; Sequence 169, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169

```

```

Query Match      71.0%; Score 317.4; DB 3; Length 579;
Best Local Similarity 81.9%; Pred. No. 4.9e-88;
Matches 366; Conservative 0; Mismatches 81; Indels 0; Gaps 0;

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```

Qy      1 GACGGGATCAATTATGCAACAGGAACTTCCCGGTGCTCTTTTCTATCTTCTCTG 60
Db      100 GACGGGATCAATTATGCAACAGGAACTTCCCGGTGCTCTTTTCTATCTTCTCTG 159
Qy      61 GCACTCCTCTGTCGTGACTGTTCCCGCTTCGCGCATTACTACCGCAACCTCGGGC 120
Db      160 GCACTCCTCTGTCGTGACTGTTCCCGCTTCGCGCATTACTATCGCAATGCTTCGGC 219
Qy      121 ATCTACCAAGTCACCAATAGTACCTCCGGAATCTGAGCATAGTTTATGAGCCGACACAC 180
Db      220 GTTATATCATATCAACCAATAGTACCTCCGGAATGAGCATAGTTTATGAGCAACGAAATCAC 279
Qy      181 ATCTTACCACTTCCAGGTGGTGGTCCCTGCTGAGAACTGGGAATCATGTCAGCTTGCG 240
Db      280 ATCTTACCACTTCCAGGTGGTGGTCCCTGCTGAGAACTGGGAATCATGTCAGCTTGCG 339
Qy      241 GTGGCCCTTACTCTTACCTGTCAGCGCATATCCGCGACCGCTTGAGTCTTCTCGG 300
Db      340 GTGGCCCTTACTCCACAGTGGCGCTGCTTACGTTGGTCTCCGCTTAGAATCCCTCGG 399
Qy      301 AGTATATGATCTGATGAGTGGGCGCTGCCACTGTTTGTCTAGCCCTTTATCTGGGAT 360
Db      400 CGCATGTGACCTGATGAGTGGTGGTCCCTGCTGAGAACTGGGAATCATGTCAGCTTGCG 459
Qy      361 TTGTGTGGCGGCTGTTGTTCTTGTGTCAGATGTTTCTTCCGACGAGCGCACTGG 420
Db      460 CTGTGCGTGGCGTATTTCTTGTGTCAGATGTTTCTTCCAGCGGAGCACTGG 519
Qy      421 ACTGCCGAGATTGCAATTGTTCTATC 447
Db      520 ACCAGCTGAGACTGCAATTGTTCTATC 546

```

```

RESULT 12
US-09-878-281A-171
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.

```

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 171
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 69.6%; Score 311; DB 3; Length 579;
Best Local Similarity 81.0%; Pred. No. 4.6e-86;
Matches 362; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 120
DB 160 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 219
QY 121 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 180
DB 220 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 279
QY 181 ATCTGACCTTCCAGGTGCGTGGCTGAGAACTGAGAACTGAGTCTGCTG 240
DB 280 ATCTGACCTTCCAGGTGCGTGGCTGAGAACTGAGAACTGAGTCTGCTGCTG 339
QY 241 GTGGCCCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 340 GTGGCCCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 399
QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 TTGTTGGCGGCTTGTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 420
DB 460 TTGTTGGCGGCTTGTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 519
QY 421 ACTGCCAGGATTTGCAATGTTCTATC 447
DB 520 ACTGCCAGGATTTGCAATGTTCTATC 546

RESULT 13

US-09-878-281A-173
Sequence 173, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 173
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 69.6%; Score 311; DB 3; Length 579;
Best Local Similarity 81.0%; Pred. No. 4.6e-86;
Matches 362; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 120
DB 160 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 219
QY 121 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 180
DB 220 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 279
QY 181 ATCTGACCTTCCAGGTGCGTGGCTGAGAACTGAGAACTGAGTCTGCTGCTG 240
DB 280 ATCTGACCTTCCAGGTGCGTGGCTGAGAACTGAGAACTGAGTCTGCTGCTGCTG 339
QY 241 GTGGCCCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 340 GTGGCCCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 399
QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 TTGTTGGCGGCTTGTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 420
DB 460 TTGTTGGCGGCTTGTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 519
QY 421 ACTGCCAGGATTTGCAATGTTCTATC 447
DB 520 ACTGCCAGGATTTGCAATGTTCTATC 546

RESULT 14

US-09-878-281A-181
Sequence 181, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 181
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: misc_feature
LOCATION: (152)..(152)
OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

Query Match 65.9%; Score 294.6; DB 3; Length 579;
Best Local Similarity 78.7%; Pred. No. 5.3e-81;
Matches 351; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGACAGAGGAACTTCCGGTGTCTTTTCTATCTTCTCTTG 159
QY 61 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 120
DB 160 GCACTCTCTGTGCTGCTGACTGTTCCCGCTTGGCCATTAATCAACCACTCGGGC 219
QY 121 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 180
DB 220 ATCTACCACTGACCAATGACTGCGCCCACTGAGCATATTTATAGAGCCGACACAC 279
QY 181 ATCTGACCTTCCAGGTGCGTGGCTGAGAACTGAGAACTGAGTCTGCTGCTG 240

| | | | |
|----|-----|--|-----|
| Db | 280 | ATCATGCACTTACAGAGGTGCATACCTCTCGTATAGGACCAGGGAACGTTTCGGCTCTCTGG | 339 |
| Qy | 241 | GTGGCCCTTACTCTCAACGTCGACAGGCCATATATGGGCGACACCGCTTGAATCTCTGGCG | 300 |
| Db | 340 | GTAATCTGCAACCTACTGTGGTGTCTCCCTCACTGGGGGCTCGGCTTACGTGCTACGG | 399 |
| Qy | 301 | AGTCATGTGATCTGATGCTGGGGGCTGCACATGTTTGCTCAGACCCCTTACATCGGGAT | 360 |
| Db | 400 | CGGCATGTGATTTGATGTGGGTGACGACACCCTTGTGCTCTCCCTCAACGTGGAAGAC | 459 |
| Qy | 361 | TTGTATGGCGGCTGTTCTTGTGTGTGCAGATGTTTCTTTCGACCAAGACGCCACTGG | 420 |
| Db | 460 | CTCTGTGAGAGTGTCCTCTTAAATGAGGACAGATGTTCACTTTCAGCGCGCGCCACTGG | 519 |
| Qy | 421 | ACTGCCCAAGATTCGCAATGTTCTAT | 446 |
| Db | 520 | ACCACTCAGAGACTGCACAATGCTTCAT | 545 |

Db 520 ACTACCCAGGACCTGCATCTCTATC 546
Search completed: January 11, 2006, 04:37:54
Job time : 112.089 secs

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RESULT 15
US-09-878-281A-120
; Sequence 120, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-120

```

| | | | | |
|-------------|--------|--------------|-------|-------------|
| Query Match | 65.6%; | Score 293.4; | DB 3; | Length 574; |
|-------------|--------|--------------|-------|-------------|

Best Local Similarity 78.5%; Pred No. 1.3e-80;
Matches 351; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 1 GAGCGGATTCGAATTATGACCAAGAGGAACCTTCCCGGTGCTCTTTTCACTTCCTGCG 60

Db 100 GACGGGATTTAACTATGATCAACAGGGAAATCTTCCCGTTGCTCTTTTATCTTCCCTCTA 155

QY 61 GCACTTCTCTCGNGCCCTGACTGTATCCGCTCTCGGCCATTAACGACCAACACTCGGGG 120

Db 160 GCACTTCTCTCGTGTGCTTGACTGTCTCCGGCTCGGGCGAGACATTCGCGAACTCTCGGGC 215

QY 121 ATCTACCACTGTCACCAATGACTGCCCCGAACTGAGACATTAATTATGAGGCCGACACAC 180

Db 220 ATTATATCACTGACCAATGACTGCCGAACTTATGATATGATATGAAGCTGACCATCAT 275

QY 181 ATCTTGACACTTTCAGAGTTCGGTCCCTGCTGCTGAGAACTGGGAATCATGTCAGTTGCTGG 240

Db 280 ATCATGCACTCTACCAAGGATGTGTGCTTGTGCTGATGAAACCGGAAACACTGCGCTGCTGG 335

QY 241 GTGGCCCTTAACCTTACCGGTGCGAGGCGCATACATGGGCGCACCGCTGTGAGTCTGCGGG 300

Db 340 GTTCTCTTTAACACCCACTGTGCGCTGCCCCCTTAATGTGGCGCGCGCTCGAATCATCGG 395

QY 301 AGTCATGTGAGATCTGAATGTGGGGGCGTGCACATGTTTGTCTCAGCCCTTTATCATCGGGAT 360

Db 400 CGGACGATGACCTTAATGATGTGGGGTCCGCGCACCGTCTGTCTCGGCCCTGTATCATGGAGAC 455

QY 361 TTGTGTGGCGGCTGTGTTCTTGTGTTGTGTGACATGTTTTCCTTCCGACCAAGCGCACTGG 420

Db 460 CTTTGTGGAGGTGTCTTCTCGTGTGCGGCAATGTTCACTTCGGCGCGCGCGCAATTGG 515

QY 421 ACTGCCAGATTCGAATTGTTCTATC 447

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075b-33
Perfect score: 447
Sequence: 1 gacgggattcaattcgaac.....aagatgcactgcctccac 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCPUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 447 | 100.0 | 447 | 3 | US-08-836-075A-33 |
| 2 | 384.6 | 86.0 | 447 | 3 | US-08-836-075A-31 |
| 3 | 381.4 | 85.3 | 447 | 3 | US-08-836-075A-35 |
| 4 | 377.4 | 84.4 | 447 | 3 | US-08-836-075A-37 |
| 5 | 376.2 | 84.2 | 447 | 3 | US-08-836-075A-39 |
| 6 | 333.4 | 74.6 | 574 | 3 | US-09-878-281A-118 |
| 7 | 331.8 | 74.2 | 579 | 3 | US-09-878-281A-117 |
| 8 | 328.6 | 73.5 | 579 | 3 | US-09-878-281A-183 |
| 9 | 320.6 | 71.7 | 579 | 3 | US-09-878-281A-167 |
| 10 | 320.6 | 71.7 | 579 | 3 | US-09-878-281A-185 |
| 11 | 311 | 69.6 | 579 | 3 | US-09-878-281A-169 |
| 12 | 303 | 67.8 | 579 | 3 | US-09-878-281A-173 |
| 13 | 301.4 | 67.4 | 579 | 3 | US-09-878-281A-171 |
| 14 | 299.8 | 67.1 | 574 | 3 | US-09-878-281A-120 |
| 15 | 299.8 | 67.1 | 579 | 3 | US-09-878-281A-175 |
| 16 | 291.4 | 65.2 | 579 | 3 | US-09-878-281A-181 |
| 17 | 290.2 | 64.9 | 579 | 3 | US-09-878-281A-177 |
| 18 | 287 | 64.2 | 574 | 3 | US-09-878-281A-122 |
| 19 | 287 | 64.2 | 579 | 3 | US-09-878-281A-189 |
| 20 | 282.2 | 63.1 | 547 | 3 | US-08-836-075A-39 |
| 21 | 280.6 | 62.8 | 579 | 3 | US-08-878-281A-179 |
| 22 | 246 | 55.0 | 576 | 2 | US-08-086-428B-42 |
| 23 | 246 | 55.0 | 576 | 2 | US-08-468-570-42 |
| 24 | 246 | 55.0 | 576 | 2 | US-08-290-665A-42 |

| | | | | | | |
|----|-------|------|------|---|-------------------|--------------------|
| 25 | 246 | 55.0 | 576 | 3 | US-08-466-601A-42 | Sequence 42, Appl |
| 26 | 246 | 55.0 | 576 | 6 | PCT-US95-10398-42 | Sequence 42, Appl |
| 27 | 244.4 | 54.7 | 576 | 2 | US-08-086-428B-43 | Sequence 43, Appl |
| 28 | 244.4 | 54.7 | 576 | 2 | US-08-468-570-43 | Sequence 43, Appl |
| 29 | 244.4 | 54.7 | 576 | 2 | US-08-290-665A-43 | Sequence 43, Appl |
| 30 | 244.4 | 54.7 | 576 | 3 | US-08-466-601A-43 | Sequence 43, Appl |
| 31 | 244.4 | 54.7 | 576 | 6 | PCT-US95-10398-43 | Sequence 43, Appl |
| 32 | 229.6 | 51.4 | 576 | 2 | US-08-086-428B-44 | Sequence 44, Appl |
| 33 | 229.6 | 51.4 | 576 | 2 | US-08-468-570-44 | Sequence 44, Appl |
| 34 | 229.6 | 51.4 | 576 | 2 | US-08-290-665A-44 | Sequence 44, Appl |
| 35 | 229.6 | 51.4 | 576 | 3 | US-08-466-601A-44 | Sequence 44, Appl |
| 36 | 229.6 | 51.4 | 576 | 6 | PCT-US95-10398-44 | Sequence 44, Appl |
| 37 | 223.4 | 50.0 | 1018 | 3 | US-08-444-818-151 | Sequence 151, Appl |
| 38 | 219.8 | 49.2 | 501 | 2 | US-08-483-695-29 | Sequence 29, Appl |
| 39 | 219.8 | 49.2 | 501 | 2 | US-07-965-285-29 | Sequence 29, Appl |
| 40 | 219.8 | 49.2 | 501 | 2 | US-08-487-231-29 | Sequence 29, Appl |
| 41 | 219.8 | 49.2 | 501 | 3 | US-09-201-912-29 | Sequence 29, Appl |
| 42 | 219.8 | 49.2 | 1019 | 3 | US-08-444-818-153 | Sequence 153, Appl |
| 43 | 219.8 | 49.2 | 1019 | 3 | US-08-444-818-154 | Sequence 154, Appl |
| 44 | 219.8 | 49.2 | 1539 | 2 | US-08-470-426B-16 | Sequence 16, Appl |
| 45 | 219.8 | 49.2 | 1863 | 2 | US-08-470-426B-13 | Sequence 13, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-33
Sequence 33, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-33

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 2e-133;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACGGATTATATGCAAGAGGAATCTTCCGGTTCCTTTCTATCTTCTCTG 60
1 GACGGATTATATGCAAGAGGAATCTTCCGGTTCCTTTCTATCTTCTCTG 60
1 GACGGATTATATGCAAGAGGAATCTTCCGGTTCCTTTCTATCTTCTCTG 60

61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

121 ATCTATCATATACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
121 ATCTATCATATACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180

181 ATCTGATCTCCAGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
181 ATCTGATCTCCAGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240

241 GTGGCCCTTACCCCTACCATGCGAGCGCATATCGGCGCAGCTTGAATCTG 300
241 GTGGCCCTTACCCCTACCATGCGAGCGCATATCGGCGCAGCTTGAATCTG 300

301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360

361 TTGTGTGCGCGTGTGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
361 TTGTGTGCGCGTGTGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420

421 ACCACCAAGATTGCAACTGCTCCATC 447
421 ACCACCAAGATTGCAACTGCTCCATC 447

RESULT 2
US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

Query Match 86.0%; Score 384.6; DB 3; Length 447;
Best Local Similarity 91.3%; Pred. No. 2.2e-113;
Matches 408; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

1 GACGGATTATATGCAAGAGGAATCTTCCGGTTCCTTTCTATCTTCTCTG 60
1 GACGGATTATATGCAAGAGGAATCTTCCGGTTCCTTTCTATCTTCTCTG 60

61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
61 GCACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

121 ATCTATCATATACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
121 ATCTATCATATACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180

181 ATCTGATCTCCAGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
181 ATCTGATCTCCAGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240

241 GTGGCCCTTACCCCTACCATGCGAGCGCATATCGGCGCAGCTTGAATCTG 300
241 GTGGCCCTTACCCCTACCATGCGAGCGCATATCGGCGCAGCTTGAATCTG 300

301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360

361 TTGTGTGCGCGTGTGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
361 TTGTGTGCGCGTGTGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420

421 ACCACCAAGATTGCAACTGCTCCATC 447
421 ACTGCCAGAGATTGCAATGTTCTATC 447

RESULT 3
US-08-836-075A-35
Sequence 35, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

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Query Match      85.3%; Score 381.4; DB 3; Length 447;
Best Local Similarity 90.2%; Pred. No. 2.3e-112;
Matches 403; Conservative 4; Mismatches 40; Indels 0; Gaps 0;

QY 1 GACGGATTAAATTAATGCAAGGAAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60
   |||||
DB 1 GACGGATTAAATTAATGCAAGGAAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60

QY 61 GCACCTCTCTGTCGCTGACCTGTCCTCCGCTTCGCGCATTAATCAACAACCTCGGAC 120
   |||||
DB 61 GCACCTCTCTGTCGCTGACCTGTCCTCCGCTTCGCGCATTAATCAACAACCTCGGAC 120

QY 121 ATCTATCATATACCAACGACGTCGCCGAATCAAGCATAGTGTAGAGCGGACCATCAC 180
   |||||
DB 121 ATCTATCATATACCAACGACGTCGCCGAATCAAGCATAGTGTAGAGCGGACCATCAC 180

QY 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGAAATCACTCGATTGCTGG 240
   |||||
DB 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGAAATCACTCGATTGCTGG 240

QY 241 GTGGCCCTTACCCCTACCATGACGCGCATATACATCGGCGCACCGCTTGAGTCTTGCGG 300
   |||||
DB 241 GTGGCCCTTACCCCTACCATGACGCGCATATACATCGGCGCACCGCTTGAGTCTTGCGG 300

QY 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360
   |||||
DB 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360

QY 361 TTGTGTGCGGCTGCTGCTTCTGTTGTCAGATGTTCTTCCAGACCAACGCGGCACATCG 420
   |||||
DB 361 TTGTGTGCGGCTGCTGCTTCTGTTGTCAGATGTTCTTCCAGACCAACGCGGCACATCG 420

QY 421 AGCAACCAAGATGCAACTGCTCAATC 447
   |||||
DB 421 AGCAACCAAGATGCAACTGCTCAATC 447

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RESULT 4
US-08-836-075A-29
Sequence 29, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

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APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-29

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Query Match      84.4%; Score 377.4; DB 3; Length 447;
Best Local Similarity 89.3%; Pred. No. 4.4e-111;
Matches 402; Conservative 2; Mismatches 43; Indels 0; Gaps 0;

QY 1 GACGGATTAAATTAATGCAAGGAAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60
   |||||
DB 1 GACGGATTAAATTAATGCAAGGAAATCTTCCGGTTCCTTTCTATCTTCTCTTG 60

QY 61 GCACCTCTCTGTCGCTGACCTGTCCTCCGCTTCGCGCATTAATCAACAACCTCGGAC 120
   |||||
DB 61 GCACCTCTCTGTCGCTGACCTGTCCTCCGCTTCGCGCATTAATCAACAACCTCGGAC 120

QY 121 ATCTATCATATACCAACGACGTCGCCGAATCAAGCATAGTGTAGAGCGGACCATCAC 180
   |||||
DB 121 ATCTATCATATACCAACGACGTCGCCGAATCAAGCATAGTGTAGAGCGGACCATCAC 180

QY 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGAAATCACTCGATTGCTGG 240
   |||||
DB 181 ATCTTGCAATCTCCAGGTTGCGTCCCTGCGTGAAGTGGGAAATCACTCGATTGCTGG 240

QY 241 GTGGCCCTTACCCCTACCATGACGCGCATATACATCGGCGCACCGCTTGAGTCTTGCGG 300
   |||||
DB 241 GTGGCCCTTACCCCTACCATGACGCGCATATACATCGGCGCACCGCTTGAGTCTTGCGG 300

QY 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360
   |||||
DB 301 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGAT 360

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QY 421 ACCACCAAGATTGCAATGCTCCATC 447
 DB 520 ACTACGAGAGACTGCAATGTTCCATC 546

RESULT 7

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-187

Query Match 74.2%; Score 331.8; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 2.2e-96;
 Matches 375; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCAATTTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
 DB 160 GCAATTTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
 QY 121 ATCTATCATATCAACCAAGCACTGCGCAATTAATGATGATGATGATGATGATGATG 180
 DB 220 ATCTATCATATCAACCAAGCACTGCGCAATTAATGATGATGATGATGATGATGATG 279
 QY 181 ATCTGATCTCCAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 240
 DB 280 ATCTGATCTCCAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 339
 QY 241 GTGGCCCTTACCCCTACCATGCAAGCCCATATCATGCGCGCATGCTTGAAGTCTTGG 300
 DB 340 GTGGCCCTTACCCCTACCATGCAAGCCCATATCATGCGCGCATGCTTGAAGTCTTGG 359
 QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 DB 460 TTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 519
 QY 421 ACCACCAAGATTGCAATGCTCCATC 447
 DB 520 ACTACGAGAGACTGCAATGTTCCATC 546

RESULT 8

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-183

Query Match 73.5%; Score 328.6; DB 3; Length 579;
 Best Local Similarity 83.4%; Pred. No. 2.3e-95;
 Matches 373; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCAATTTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
 DB 160 GCAATTTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
 QY 121 ATCTATCATATCAACCAAGCACTGCGCAATTAATGATGATGATGATGATGATGATG 180
 DB 220 ATCTATCATATCAACCAAGCACTGCGCAATTAATGATGATGATGATGATGATGATG 279
 QY 181 ATCTGATCTCCAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 240
 DB 280 ATCTGATCTCCAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 339
 QY 241 GTGGCCCTTACCCCTACCATGCAAGCCCATATCATGCGCGCATGCTTGAAGTCTTGG 300
 DB 340 GTGGCCCTTACCCCTACCATGCAAGCCCATATCATGCGCGCATGCTTGAAGTCTTGG 359
 QY 301 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB 400 AGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 TTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 DB 460 TTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 519
 QY 421 ACCACCAAGATTGCAATGCTCCATC 447
 DB 520 ACCACGAGAGACTGCAATGTTCTATC 546

RESULT 9

US-09-878-281A-167
 ; Sequence 167, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 167
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-167

Query Match 71.7%; Score 320.6; DB 3; Length 579;
 Best Local Similarity 82.3%; Pred. No. 8.6e-93;
 Matches 368; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 60
 DB 100 GACGGATTAATTAATGCAAGGAAATCTTCCGGTTGCTCTTTCTATCTTCTCTG 159
 QY 61 GCAATTTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 173
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 67.8%; Score 303; DB 3; Length 579;
Best Local Similarity 79.9%; Pred. No. 3.9e-87;
Matches 357; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 180
DB 220 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 279
QY 181 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 280 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
QY 241 GTGGCCCTTACCCCTTACCTGATGCAAGCCGCAATCAATCGGCGGCTTGAATCTTGG 300
DB 340 ATACCTCTTACCCCTTACCTGATGCAAGCCGCAATCAATCGGCGGCTTGAATCTTGG 399
QY 301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTGTGTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 TTGTGTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACCACCCCAAGTTGCAATGCTGCTCATC 447
DB 520 ACCACCCCAAGTTGCAATGCTGCTCATC 546

RESULT 13
US-09-878-281A-171
Sequence 171, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 171
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 67.4%; Score 301.4; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 1.3e-86;
Matches 356; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 180
DB 220 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 279
QY 181 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 280 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
QY 241 GTGGCCCTTACCCCTTACCTGATGCAAGCCGCAATCAATCGGCGGCTTGAATCTTGG 300
DB 340 ATACCTCTTACCCCTTACCTGATGCAAGCCGCAATCAATCGGCGGCTTGAATCTTGG 399
QY 301 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 TTGTGTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 TTGTGTGCGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACCACCCCAAGTTGCAATGCTGCTCATC 447
DB 520 ACCACCCCAAGTTGCAATGCTGCTCATC 546

RESULT 14
US-09-878-281A-120
Sequence 120, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 120
LENGTH: 574
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-120

Query Match 67.1%; Score 299.8; DB 3; Length 574;
Best Local Similarity 79.4%; Pred. No. 4.1e-86;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 1 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 60
DB 100 GACGGATTAATTAATGCAACAGGGAATCTTCGCGTGTCTCTTTCTATCTTCTCTTG 159
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 180
DB 220 ATCTATCATATCAACCAAGCACTGCGGCAATCAAGCATAGTATGAGGCGGACATCAC 279
QY 181 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 280 ATCTGATCTCCAGGTTGCGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
QY 241 GTGGCCCTTACCCCTTACCTGATGCAAGCCGCAATCAATCGGCGGCTTGAATCTTGG 300

Job time : 112.089 secs

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Db      340  GTTCTTTAACCACCGACGTGGCTGCCCTTATGTGGCGCGCGCTGCATCATCGG 399
QY      301  AGTCATGTGATCTGATGTGGGGCGGCCACTGTCTGTTCAGCCCTTTATCATGGGAT 360
Db      400  CGGACGTTGACTTAATGTGGTGGCCGACCGTCTGCTGGCCCTGTACATGAGAC 459
QY      361  TTGTGTGGCGGTGGCTTCTTGTGTGTGATGTTCTCTTCCGACACGGCGCCACTGG 420
Db      460  CTTTGGCGAGGTGTCTTCTTGTCGGGCAAGTTCACCTTCGGCGCGCGCCATTGG 519
QY      421  ACCACCCAAAGATTGCAACTGCTCATC 447
Db      520  ACTACCCAGACTGCAACTGCTTATC 546
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RESULT 15
US-09-878-281A-175
; Sequence 175, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis, and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 175
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-175
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Query Match      67.1%; Score 299.8; DB 3; Length 579;
Best Local Similarity 79.4%; Pred. No. 4.1e-86;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
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QY      1  GACGGGATTATTTATGCAACGGAATTTCCCGGTGCTCTTTCTATTTCTCTTG 60
Db      100  GACGGGATTATTTATGCAACGGAATTTCCCGGTGCTCTTTCTATTTCTCTTA 159
QY      61  GCACCTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db      160  GCACCTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY      121  ATCTATCATATCACCAAGCTGCCGAATTCAGCATAGTGTATGAGCCGACCATCA 180
Db      220  ATTTATCAGTACCAATGACGCCGAACTAGTATAGTATGAAGTGAACATCA 279
QY      181  ATCTTGATCTCCGAGGTGGTGGCCCTGCGTGAAGTGGGGAATCAGTCAGTTGCTG 240
Db      280  ATCAATGATCTACCAAGGTGTGTGCTTGGTGAACCGGAAACACTCTGCGCTGTG 339
QY      241  GTGGCCCTTACCCCTACCATGCAAGCGCATATATCGGCGACCGCTTGAAGTCTTGG 300
Db      340  GTTCTTTAACCACCGACGTGGCTGCCCTTATGTGGCGCGCGCTCGAATCATGGG 399
QY      301  AGTCATGTGATCTGATGTGGGGCGGCACTGTCTGTTCAGCCCTTTACATCGGGAT 360
Db      400  CGGACGTTGACTTAATGTGGTGGCCGACCGTCTGCTGCGCCCTGTACATCGAGAC 459
QY      361  TTGTGTGGCGGTGCTTGTGTGTGATGTTCTCTTCCGACACGGCGCGCACTGG 420
Db      460  CTTTGGCGAGGTGTCTTCTTGTCGGGCAAGTTCACCTTCGGCGCGCGCCATTGG 519
QY      421  ACCACCCAAAGATTGCAACTGCTCATC 447
Db      520  ACTACCCAGACTGCAACTGCTTATC 546
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Search completed: January 11, 2006, 04:37:55

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-35

Perfect score: 447
Sequence: 1 gaaggagcatcatgtacac.....aggatgtcattgttccatc 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 445.4 | 99.6 | 447 | 3 | US-08-836-075A-35 |
| 2 | 387.4 | 86.7 | 447 | 3 | US-08-836-075A-37 |
| 3 | 383 | 85.7 | 447 | 3 | US-08-836-075A-31 |
| 4 | 381.4 | 85.3 | 447 | 3 | US-08-836-075A-33 |
| 5 | 379 | 84.8 | 447 | 3 | US-08-836-075A-29 |
| 6 | 341.4 | 76.4 | 574 | 3 | US-09-878-281A-118 |
| 7 | 339.8 | 76.0 | 579 | 3 | US-09-878-281A-187 |
| 8 | 333.4 | 74.6 | 579 | 3 | US-09-878-281A-183 |
| 9 | 330.2 | 73.9 | 579 | 3 | US-09-878-281A-185 |
| 10 | 325.4 | 72.8 | 579 | 3 | US-09-878-281A-167 |
| 11 | 311 | 69.6 | 579 | 3 | US-09-878-281A-169 |
| 12 | 301.4 | 67.4 | 579 | 3 | US-09-878-281A-171 |
| 13 | 299.8 | 67.1 | 579 | 3 | US-09-878-281A-173 |
| 14 | 299.4 | 67.0 | 579 | 3 | US-09-878-281A-181 |
| 15 | 293.4 | 65.6 | 447 | 3 | US-08-836-075A-39 |
| 16 | 291.8 | 65.3 | 579 | 3 | US-09-878-281A-120 |
| 17 | 291.8 | 65.3 | 579 | 3 | US-09-878-281A-175 |
| 18 | 279 | 62.4 | 574 | 3 | US-09-878-281A-177 |
| 19 | 272.6 | 61.0 | 574 | 3 | US-09-878-281A-122 |
| 20 | 272.6 | 59.9 | 579 | 3 | US-09-878-281A-189 |
| 21 | 267.8 | 59.9 | 579 | 3 | US-09-878-281A-179 |
| 22 | 252.8 | 56.6 | 576 | 2 | US-08-086-428B-43 |
| 23 | 252.8 | 56.6 | 576 | 2 | US-08-468-570-43 |
| 24 | 252.8 | 56.6 | 576 | 2 | US-08-290-665A-43 |

| | | | | | | |
|----|-------|------|------|---|-------------------|-------------------|
| 25 | 252.8 | 56.6 | 576 | 3 | US-08-466-601A-43 | Sequence 43, Appl |
| 26 | 252.8 | 56.6 | 576 | 6 | PCT-US95-10398-43 | Sequence 43, Appl |
| 27 | 250.6 | 56.1 | 576 | 2 | US-08-086-428B-42 | Sequence 42, Appl |
| 28 | 250.6 | 56.1 | 576 | 2 | US-08-468-570-42 | Sequence 42, Appl |
| 29 | 250.6 | 56.1 | 576 | 2 | US-08-290-665A-42 | Sequence 42, Appl |
| 30 | 250.6 | 56.1 | 576 | 3 | US-08-466-601A-42 | Sequence 42, Appl |
| 31 | 250.6 | 56.1 | 576 | 6 | PCT-US95-10398-42 | Sequence 42, Appl |
| 32 | 227.2 | 50.8 | 576 | 2 | US-08-086-428B-44 | Sequence 44, Appl |
| 33 | 227.2 | 50.8 | 576 | 2 | US-08-468-570-44 | Sequence 44, Appl |
| 34 | 227.2 | 50.8 | 576 | 2 | US-08-290-665A-44 | Sequence 44, Appl |
| 35 | 227.2 | 50.8 | 576 | 3 | US-08-466-601A-44 | Sequence 44, Appl |
| 36 | 227.2 | 50.8 | 576 | 6 | PCT-US95-10398-44 | Sequence 44, Appl |
| 37 | 223 | 49.9 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl |
| 38 | 222.2 | 49.7 | 1018 | 3 | US-08-444-818-151 | Sequence 151, App |
| 39 | 221.4 | 49.5 | 1019 | 3 | US-08-444-818-153 | Sequence 153, App |
| 40 | 221.4 | 49.5 | 9401 | 2 | US-08-432-693-1 | Sequence 1, Appl |
| 41 | 221.4 | 49.5 | 9416 | 3 | US-08-811-566-19 | Sequence 19, Appl |
| 42 | 221.4 | 49.5 | 9416 | 3 | US-09-034-756-19 | Sequence 19, Appl |
| 43 | 221.4 | 49.5 | 9599 | 3 | US-09-014-416-2 | Sequence 2, Appl |
| 44 | 221.4 | 49.5 | 9646 | 3 | US-08-811-566-1 | Sequence 1, Appl |
| 45 | 221.4 | 49.5 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-35
Sequence 35, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

| | Query Match | Similarity | 90.4% | Score | 383 | DB | 31 | Length | 447 |
|----|-------------|---|-------|--------------|-----|------------|----|--------|-----|
| | Best Local | Matches | 404 | Conservative | 4 | Mismatches | 39 | Indels | 0 |
| | | | | | | | | | |
| QY | 1 | GACGGGATCAATTATGCAACAGGGAAATATCCCGGTGCTCTTTTCTATCTTCTCTT | 60 | | | | | | |
| Db | 1 | GACGGGATCAATTATGCAACAGGGAAACCTCCCGGTGCTCTTTTCTATCTTCTCTT | 60 | | | | | | |
| QY | 61 | GCACCTCTCTGCTGTACAGTGTCCCGGCTTGCGGCACCACTATCGCAAGCTCGGGC | 120 | | | | | | |
| Db | 61 | GCACCTCTCTGCTGTACAGTGTCCCGGCTTGCGGCATTTAACTACCGCAACCTCGGGC | 120 | | | | | | |
| QY | 121 | ATCTAACATGTACCAATGACTGCCCGAATTCAGCATATGTTATGAGGCCGACCATCAC | 180 | | | | | | |
| Db | 121 | ATCTAACACGTACCAATGACTGCCCGAATTCAGCATATGTTATGAGGCCACCAACAC | 180 | | | | | | |
| QY | 181 | ATCTTAAACCTTCAGGTTGGCGGCCGCGAGAGTGGGGAACAGTACAGCTGCTGG | 240 | | | | | | |
| Db | 181 | ATCTTGAACCTTCAGGTTGGCGGCCGCGAGAACTGGGAATCAGTACAGTGGTCTGG | 240 | | | | | | |
| QY | 241 | GTGGCCCTTACCCCTACCGTCGACAGGCGCATACACCGGCGCGGCTTGAATGTCCTGCGG | 300 | | | | | | |
| Db | 241 | GTGGCCCTTACTCTCAACGTCGACAGGCGCATATCATCGGCGCACCGCTTGAATGTCCTGCGG | 300 | | | | | | |
| QY | 301 | AGTATATGTGATCTGATATGTGTGGAGCTGCACCTGTTTTCAGCCCTTAACTCGGGGAT | 360 | | | | | | |
| Db | 301 | AGTATATGTGATCTGATATGTGTGGAGGCTGCACCTGTTTGTCTAGCCCTTAACTCGGGGAT | 360 | | | | | | |
| QY | 361 | TTGTGTGCGGCGCTGTTCTTGGTTGGTACAGATGTTCTGTTTCAGCCTCGGCGCATCTGG | 420 | | | | | | |
| Db | 361 | TTGTGTGCGGCGCTGTTCTTGGTTGGTACAGATGTTTCTTTCGACCAAGACGCACCTGG | 420 | | | | | | |
| QY | 421 | ACTAACCCAGATGTGAATTTTCCATC | 447 | | | | | | |
| Db | 421 | ACTGCCAGATGTGAATTTTCTATC | 447 | | | | | | |

| Query Match | 85.3%; | Score 381.4; | DB 3; | Length 447; |
|-----------------------|-----------------|---|-----------|-------------|
| Best Local Similarity | 90.2%; | Pred. No. 1.9e-110; | | |
| Matches 403; | Conservative 4; | Mismatches 40; | Indels 0; | Gaps 0 |
| QY | 1 | GACGGATCAATTATGCAACAGGGAATATCCGGTCTCTTTCATCTCTCTTATG | 60 | |
| Db | 1 | GACGGATTAATTATGCAACAGGGAATCTTCCGGTCTCTTTCATCTCTCTTATG | 60 | |
| QY | 61 | GCACTTCTCTGCTCTGACTGTCTCCCGCTTCGGCCACTAACATATCGCAAGCTCTCGGC | 120 | |
| Db | 61 | GCACTTCTCTGCTCTGACTGTCTCCCGCTTCGGCCACTAACATCAACAACTCTCGGC | 120 | |
| QY | 121 | ATCTACCATGTCACCAATGACTGCCCGAATTCAGACATAGTATGAGGCGGACCATATAC | 180 | |
| Db | 121 | ATCTATATATTCACCAACGACTGCCCGAATTCAGACATAGTATGAGGCGGACCATATAC | 180 | |
| QY | 181 | ATCTTAGCACTTCAGAGTGGCGTCCCTCGCTGAGAGTGGGGAACAGCTCAGCTGTGG | 240 | |
| Db | 181 | ATCTTGCAATCTCCAGGTGGGTGCTCCCTCGCTGAGAGTGGGGAATCACTCAGTTGGCTGG | 240 | |
| QY | 241 | GTGGCCCTTACCCCTTACCGTGCAGCGCATACACCGGCGCGCTTGAATCCTCTCGGG | 300 | |
| Db | 241 | GTGGCCCTTACCCCTTACCATGCAAGCCCATATACATCGGCGCACCGCTTGAATCCTCTCGGG | 300 | |
| QY | 301 | AGTCATGTGATCTGATGTGGGGAGCTGCATCTTTGTTTACGCCCTTATCATGTGGGGAY | 360 | |
| Db | 301 | AGTCATGTGATCTGATGTGGGGAGCTGCATCTTTGTTTACGCCCTTATCATGTGGGGAT | 360 | |

QY 361 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 420
Db 361 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 420
QY 421 ACTACCCAGGATTGCAATTGTTCCATC 447
Db 421 ACCACCAAGATGCAACTGCTCATC 447

RESULT 5

US-08-836-075A-29
; Sequence 29, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-29

Query Match 84.8%; Score 379; DB 3; Length 447;
Best Local Similarity 89.5%; Pred. No. 1,1e-109;
Matches 400; Conservative 6; Mismatches 41; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAATATTCGCCGTTGCTCTTTCATCTTCTTCTTGG 60
Db 1 GACGGGATCAATTATGCAACAGGAATATTCGCCGTTGCTCTTTCATCTTCTTCTTGG 60
QY 61 GCACTTCTCTGATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 61 GCACTTCTCTGATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATCTACATGTACCAATGACTGCGGCAATTCAGACATAGTATGAGGCGGACATCAC 180
Db 121 ATCTACATGTACCAATGACTGCGGCAATTCAGACATAGTATGAGGCGGACATCAC 180

Db 121 ATTACTATGTACCAATGATTCGCCGAATTCAGACATAGTATGAGGCGGACATCAC 180
QY 181 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 240
Db 181 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 240
QY 241 GTAGCCCTTACCCCTACCGTACGAGGCGCATACATGCGGCGGCGCATGAGTCTACCG 300
Db 241 GTAGCCCTTACCCCTACCGTACGAGGCGCATACATGCGGCGGCGCATGAGTCTACCG 300
QY 301 AGTCATGTGATCTGATGTGGAGCTGCCACTGTTTGTTCAGCCCTTTACATCGGGAG 360
Db 301 AGTCATGTGATCTGATGTGGAGCTGCCACTGTTTGTTCAGCCCTTTACATCGGGAG 360
QY 361 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 420
Db 361 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 420
QY 421 ACTACCCAGGATTGCAATTGTTCCATC 447
Db 421 ACTACCAAGATGCAACTGCTCATC 447

RESULT 6

US-09-878-281A-118
; Sequence 118, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; FILING DATE: 2001-06-12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-118

Query Match 76.4%; Score 341.4; DB 3; Length 574;
Best Local Similarity 84.6%; Pred. No. 9.3e-98;
Matches 378; Conservative 4; Mismatches 65; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAATATTCGCCGTTGCTCTTTCATCTTCTTCTTGG 60
Db 100 GACGGGATCAATTATGCAACAGGAATATTCGCCGTTGCTCTTTCATCTTCTTCTTGG 159
QY 61 GCACTTCTCTGATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 160 GCACTTCTCTGATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
QY 121 ATCTACATGTACCAATGACTGCGGCAATTCAGACATAGTATGAGGCGGACATCAC 180
Db 220 ATCTACATGTACCAATGACTGCGGCAATTCAGACATAGTATGAGGCGGACATCAC 279
QY 181 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 240
Db 181 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 240
QY 280 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 339
Db 280 ATCTTACATCTTCAGAGTTGCGTCCCTGCGAGAGTGGGGAACAGTACAGCTGCTGG 339
QY 241 GTAGCCCTTACCCCTACCGTACGAGGCGCATACATGCGGCGGCGCATGAGTCTACCG 300
Db 340 GTAGCCCTTACCCCTACCGTACGAGGCGCATACATGCGGCGGCGCATGAGTCTACCG 399
QY 301 AGTCATGTGATCTGATGTGGAGCTGCCACTGTTTGTTCAGCCCTTTACATCGGGAG 360
Db 400 AGTCATGTGATCTGATGTGGAGCTGCCACTGTTTGTTCAGCCCTTTACATCGGGAG 459
QY 361 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 420
Db 460 TTGTGTGGCGGCTTGTCTTGGTGTGCAGATGTCTCTTTCAGAGCTCGGCGCCACTGG 519

Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
 Db 520 ACTACGAGAGACTGCATGTTCCATC 546

RESULT 7

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-187

Query Match 76.0%; Score 339.8; DB 3; Length 579;
 Best Local Similarity 84.3%; Pred. No. 3e-97;
 Matches 377; Conservative 4; Mismatches 66; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 60
 Db 100 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 159
 Qy 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 Qy 121 ATTCACATGTCACCAATGATGCTGCCGGAATCAAGCATAGTGTAGAGCCGACATAC 180
 Db 220 ATTCATCATCATCAATGATGCTGCCGGAATCAAGCATAGTGTAGAGCCGACATAC 279
 Qy 181 ATCTTAGCATCTTCCAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 Db 280 ATCTTAGCATCTTCCAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 Qy 241 GTGACCTTATACCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 Db 340 GTGACCTTATACCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 399
 Qy 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTC 360
 Db 400 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTC 459
 Qy 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 Db 460 CTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
 Db 520 ACTACGAGAGACTGCATGTTCCATC 546

RESULT 8

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-183

Query Match 74.6%; Score 333.4; DB 3; Length 579;
 Best Local Similarity 83.4%; Pred. No. 3.1e-95;
 Matches 373; Conservative 4; Mismatches 70; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 60
 Db 100 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 159
 Qy 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 Qy 121 ATTCACATGTCACCAATGATGCTGCCGGAATCAAGCATAGTGTAGAGCCGACATAC 180
 Db 220 ATTCATCATCATCAATGATGCTGCCGGAATCAAGCATAGTGTAGAGCCGACATAC 279
 Qy 181 ATCTTAGCATCTTCCAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 Db 280 ATCTTAGCATCTTCCAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 Qy 241 GTGACCTTATACCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
 Db 340 GTGACCTTATACCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 399
 Qy 301 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTC 360
 Db 400 AGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTC 459
 Qy 361 TTGTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 Db 460 CTGTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
 Db 520 ACCACGAGAGACTGCATGTTCCATC 546

RESULT 9

US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-185

Query Match 73.9%; Score 330.2; DB 3; Length 579;
 Best Local Similarity 83.0%; Pred. No. 3.2e-94;
 Matches 371; Conservative 4; Mismatches 72; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 60
 Db 100 GACGGGATCAATTATGCAACAGGGAATATCCCGGTGCTCTTTCTATCTCTTTG 159
 Qy 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

```
Db 160 GCACCTTCTCTGCTGCTGACTGTGTCCCACTCGGCGCACTATCGCAATGCTCGGGC 219
Qy 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGACATAGTATGAGGCGGACATCAC 180
Db 220 GTCTACCACTGTCACCAATGATGCGCCGAATTCAGACATAGTATGAGGCGGACATCAC 279
Qy 181 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 240
Db 280 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 339
Qy 241 GTGGCCCTTACCCCTACCGTTCGACGCGCATACACCGCGCGCGCTTGAATCCCTGGG 300
Db 340 GTGGCCCTTCTCCACCGTTCGCGCGCATACACCGCGCGCTTGAATCCCTGGG 399
Qy 301 AGTATGAGATCTGATGCTGGAGCTGGCCACTGTTTGTACGCCCTTATACGGGGAY 360
Db 400 AGACACGTCGACATGATGCTGGAGCTGGCCACTGTTTGTACGCCCTTATACGGGGAY 459
Qy 361 TTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTCTTTCAGGCTCGGCGCACTGG 420
Db 460 TTGTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTCTTTCAGGCTCGGCGCACTGG 519
Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
Db 520 ACTACCGAGACTGCAATTGTTCCATC 546
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RESULT 10
US-09-878-281A-167
Sequence 167, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 167
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-167

Query Match 72.8%; Score 325.4; DB 3; Length 579;
Best Local Similarity 82.3%; Pred. No. 1.1e-92;
Matches 368; Conservative 4; Mismatches 75; Indels 0; Gaps 0;

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Qy 1 GACGGGATCAATTATGCAAGGAAATATCCCGTGTCTCTTCTATCTTCCTTTTG 60
Db 100 GACGGGATCAATTATGCAAGGAAATATCCCGTGTCTCTTCTATCTTCCTTTTG 159
Qy 61 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACTAATCGCAAGTCTCGGGC 120
Db 160 GCGGTCCTCTGCTGCTGACTGTCCCGCTTCGCGCACTAATCGCAAGTCTCGGGC 219
Qy 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGACATAGTATGAGGCGGACATCAC 180
Db 220 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 279
Qy 181 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 240
Db 280 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 339
Qy 241 GTGGCCCTTACCCCTACCGTTCGACGCGCATACACCGCGCGCGCTTGAATCCCTGGG 300
Db 340 GTGGCCCTTCTCCACCGTTCGCGCGCATACACCGCGCGCTTGAATCCCTGGG 399
Qy 301 AGTATGAGATCTGATGCTGGAGCTGGCCACTGTTTGTACGCCCTTATACGGGGAY 360
Db 400 AGACACGTCGACATGATGCTGGAGCTGGCCACTGTTTGTACGCCCTTATACGGGGAY 459
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Db 400 CGTCATGTGACCTGATGATGAGTGTGCTGCCACCATGATGTTCCGCTTACATCGGCGAC 459
Qy 361 TTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTTTCAGGCTCGGCGCACTGG 420
Db 460 TTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTTTCAGGCTCGGCGCACTGG 519
Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
Db 520 ACTACCGAGACTGCAATTGTTCCATC 546
```

RESULT 11
US-09-878-281A-169
Sequence 169, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 169
LENGTH: 579
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-169

Query Match 69.6%; Score 311; DB 3; Length 579;
Best Local Similarity 80.3%; Pred. No. 3.7e-88;
Matches 359; Conservative 4; Mismatches 84; Indels 0; Gaps 0;

```
Qy 1 GACGGGATCAATTATGCAAGGAAATATCCCGTGTCTCTTCTATCTTCCTTTTG 60
Db 100 GACGGGATCAATTATGCAAGGAAATATCCCGTGTCTCTTCTATCTTCCTTTTG 159
Qy 61 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACTAATCGCAAGTCTCGGGC 120
Db 160 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACTAATCGCAAGTCTCGGGC 219
Qy 121 ATCTACCATGTCACCAATGATGCGCCGAATTCAGACATAGTATGAGGCGGACATCAC 180
Db 220 GTTATACATCAACCAAGCACTGCGGAATGAGATAGTATGAGGCGGACATCAC 279
Qy 181 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 240
Db 280 ATCTTACGACTTCCAGGTTGGCGTCCCTGCGTGAAGTGGGAAACAGTCAAGCTGTGG 339
Qy 241 GTGGCCCTTACCCCTACCGTTCGACGCGCATACACCGCGCGCGCTTGAATCCCTGGG 300
Db 340 GTGGCCCTTCTCCACCGTTCGCGCGCATACACCGCGCGCGCTTGAATCCCTGGG 399
Qy 301 AGTATGAGATCTGATGCTGGAGCTGGCCACTGTTTGTACGCCCTTATACGGGGAY 360
Db 400 CGCATGTGACCTGATGATGAGTGTGCTGACCGGTGTGCTCCGCTTACATCGGCGAC 459
Qy 361 TTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTCTTTCAGGCTCGGCGCACTGG 420
Db 460 CTGTGTGGCGGCTTGTCTGTGTGATGATGTTCTCTTTCAGGCTCGGCGCACTGG 519
Qy 421 ACTACCGAGATTGCAATTGTTCCATC 447
Db 520 ACTACCGAGACTGCAATTGTTCCATC 546
```

RESULT 12
US-09-878-281A-171
Sequence 171, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 171
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-171

Query Match 67.4%; Score 301.4; DB 3; Length 579;
 Best Local Similarity 79.0%; Pred. No. 4e-85;
 Matches 353; Conservative 4; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGGAATATTCGCGTGTCTCTTTCTATCTTCCTTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAACCTTCCTGTTGCTCTTTCTATCTTCCTTTG 159
 QY 61 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCACTATCTATCGAAGCTTCGGGC 120
 DB 160 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCTGTGCAATATGCAACACCTTCGGGC 219
 QY 121 ATCTACCATGTCACCAATGATGCGCCGGAATCAAGCATATGATGAGCCGCACTAC 180
 DB 220 ATCTACCACTGCAACCAATGATGCGCCCTTACTCTGATGATGAGCGAGTCAATAC 279
 QY 181 ATCTTAGCACTTTCAGGTTGCGTCCCTGCGTGAAGTGGGGAACAAGTCAAGCTGCTG 240
 DB 280 ATCTTAGCACTTTCAGGATGCGTCCCTGTTGAAGATGGGGAACAAGTCAAGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCGTGTGAGCGGCATACACCGCGGCGCGCTTGAATCCCTGCG 300
 DB 340 GTACCTCTGACCCCGACGCTGCGCGCATACCTTGGCGCTTCACTGATTCATCGCG 399
 QY 301 AGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
 DB 400 CGTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
 QY 361 TTGTGTGCGCGCTTGTCTTGTGTGTGATGATGATGATGATGATGATGATGATGATG 420
 DB 460 CTGTGCGGCGCGCTTGTCTTGTGTGTGATGATGATGATGATGATGATGATGATGATG 519
 QY 421 ACTACCCAGGATTCGAATGTTTCATC 447
 DB 520 ACCACCCAGGATTCGAATGTTTCAC 546

RESULT 13
 US-09-878-281A-173
 ; Sequence 173, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 173
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-173

Query Match 67.1%; Score 299.8; DB 3; Length 579;
 Best Local Similarity 78.7%; Pred. No. 1.3e-84;
 Matches 352; Conservative 4; Mismatches 91; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGGAATATTCGCGTGTCTCTTTCTATCTTCCTTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAACCTTCCTGTTGCTCTTTCTATCTTCCTTTG 159
 QY 61 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCACTATCTATCGAAGCTTCGGGC 120
 DB 160 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCTGTGCAATATGCAACACCTTCGGGC 219
 QY 121 ATCTACCATGTCACCAATGATGCGCCGGAATCAAGCATATGATGAGCCGCACTAC 180
 DB 220 ATCTACCACTGCAACCAATGATGCGCCCTTACTCTGATGATGAGCGAGTCAATAC 279
 QY 181 ATCTTAGCACTTTCAGGTTGCGTCCCTGCGTGAAGTGGGGAACAAGTCAAGCTGCTG 240
 DB 280 ATCTTAGCACTTTCAGGATGCGTCCCTGTTGAAGATGGGGAACAAGTCAAGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCGTGTGAGCGGCATACACCGCGGCGCGCTTGAATCCCTGCG 300
 DB 340 GTACCTCTGACCCCGACGCTGCGCGCATACCTTGGCGCTTCACTGATTCATCGCG 399
 QY 301 AGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
 DB 400 CGTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
 QY 361 TTGTGTGCGCGCTTGTCTTGTGTGTGATGATGATGATGATGATGATGATGATGATG 420
 DB 460 CTGTGCGGCGCGCTTGTCTTGTGTGTGATGATGATGATGATGATGATGATGATGATG 519
 QY 421 ACTACCCAGGATTCGAATGTTTCATC 447
 DB 520 ACCACCCAGGATTCGAATGTTTCAC 546

RESULT 14
 US-09-878-281A-181
 ; Sequence 181, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 181
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; NAME/KEY: misc_feature
 ; LOCATION: (152)..(152)
 ; OTHER INFORMATION: "n" is any nucleotide
 US-09-878-281A-181

Query Match 67.0%; Score 299.4; DB 3; Length 579;
 Best Local Similarity 78.7%; Pred. No. 1.7e-84;
 Matches 351; Conservative 4; Mismatches 91; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGGAATATTCGCGTGTCTCTTTCTATCTTCCTTTG 60
 DB 100 GACGGATTAACATATGCAACAGGGAATTCCTGTTGCTCTTTCTATCTTCCTTTG 159
 QY 61 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCACTATCTATCGAAGCTTCGGGC 120
 DB 160 GCACTTCTCTGCTGTGACTGTCCCGCTTCGCGCTGTGCAATATGCAACACCTTCGGGC 219
 QY 121 ATCTACCATGTCACCAATGATGCGCCGGAATCAAGCATATGATGAGCCGCACTAC 180
 DB 220 ATCTACCACTGCAACCAATGATGCGCCCTTACTCTGATGATGAGCGAGTCAATAC 279
 QY 181 ATCTTAGCACTTTCAGGTTGCGTCCCTGCGTGAAGTGGGGAACAAGTCAAGCTGCTG 240

Db 280 ATCATGACTTACACGAGGTGATACCTGCGTGAAGACCGGGAACGTTTGCGCTGCTGG 339
Qy 241 GTGGCCCTTACCCCTTACCCGTGCGAGCGCATACACCGGCGCGCTTGAGTCCCTGCGG 300
Db 340 GATATCTGTGAACCTTACTGTGTGCTGCTCCCTACCTCGGGGCTTACCTGCTACGG 399
Qy 301 AGTCATGTGATGTGATGTGAGAGCTGCGCACTGTTGTTGACGCTTTATACATCGGGAGY 360
Db 400 CGGATGTGATGTGATGTGAGAGCTGCGCACTGTTGTTGACGCTTTATACATCGGGAGY 459
Qy 361 TTGTGTGCGCGCTTGTCTTGTGTGTGTCAGATGTTCTTTTTCAGCTCGGCGCACTGG 420
Db 460 CTCTGTGAGAGGTGCTTCTTCTAGTGGAGACAGATGTTTCACTTCCAGCGCGCGCACTGG 519
Qy 421 ACTACCGAGATGCAATGTTCCAT 446
Db 520 ACCACTGAGACTGCACTGCTCAT 545

RESULT 15

US-08-836-075A-39
; Sequence 39, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEtical: NO
; ANTI-SENSE: NO
US-08-836-075A-39

Query Match 65.6%; Score 293.4; DB 3; Length 447;
Best Local Similarity 77.9%; Pred. No. 1.2e-82;
Matches 348; Conservative 4; Mismatches 95; Indels 0; Gaps 0;

Qy 1 GACGGATCAATTATGCAACAGGGAATATTCGCGTGTCTTCTTATCTTCTTCTT 60
Db 1 GAGGGATCAATTATGCAACAGGGAATATTCGCGTGTCTTCTTATCTTCTTCTT 60
Qy 61 GCACTTCTCTGCTGTGACTGCTTCCCGCTTGGCCCACTAATATGCAAGCTCTGGG 120
Db 61 GCACTTCTCTGCTGTGACTGCTTCCCGCTTGGCCCACTAATATGCAAGCTCTGGG 120
Qy 121 ATCTACCATGTACCAATGACTGCGCGGAATTGAAGATGTATGAGGCGGACATCAC 180
Db 121 ATTTACCATGTACCAATGACTGCGCGGAATTGAAGATGTATGAGTGTGACATCAC 180
Qy 181 ATCTTACCATGTACCAATGACTGCGCGGAATTGAAGATGTATGAGTGTGACATCAC 240
Db 181 ATCTTACCATGTACCAATGACTGCGCGGAATTGAAGATGTATGAGTGTGACATCAC 240
Qy 241 GTGGCCCTTACCCCTTACCCGTGCGAGCGCATACACCGCGCGCGCTTGAGTCCCTGGG 300
Db 241 GTGGCCCTTACCACTTACCCGTGCGAGCGCATATCTTTCGCTTCACTTATGTCCGTACCG 300
Qy 301 AGTCATGTGATGTGATGTGAGAGCTGCGCACTGTTGTTGACCCCTTACATCGGGAGY 360
Db 301 CGGATGTGATGTGATGTGAGAGCTGCGCACTGTTGTTGACCCCTTACATCGGGAGY 360
Qy 361 TTGTGTGCGCGCTTGTCTTGTGTGTGTCAGATGTTCTTTTTCAGCTCGGCGCACTGG 420
Db 361 CTCTGTGAGAGGTGCTTCTTCTAGTGGAGACAGATGTTTCACTTCCAGCGCGCGCACTGG 420
Qy 421 ACTACCGAGATGCAATGTTCCATC 447
Db 421 ACTGTCCAGACTGCAACTGTTCATC 447

Search completed: January 11, 2006, 04:37:56
Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-37

Perfect score: 447
Sequence: 1 gaaggatcaatcatgcaac.....aggatgcatgttcacac 447

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Issued Patents_NA: *
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq: *
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4: /cgn2_6/ptodata/1/ina/6B COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 446.6 | 99.9 | 447 | 3 | US-08-836-075A-37 |
| 2 | 402.6 | 90.1 | 447 | 3 | US-08-836-075A-29 |
| 3 | 387.4 | 86.7 | 447 | 3 | US-08-836-075A-35 |
| 4 | 384.2 | 86.0 | 447 | 3 | US-08-836-075A-31 |
| 5 | 376.2 | 84.2 | 447 | 3 | US-08-836-075A-33 |
| 6 | 339.4 | 75.9 | 574 | 3 | US-09-878-281A-118 |
| 7 | 337.8 | 75.6 | 579 | 3 | US-09-878-281A-187 |
| 8 | 333 | 74.5 | 579 | 3 | US-09-878-281A-183 |
| 9 | 333 | 74.5 | 579 | 3 | US-09-878-281A-185 |
| 10 | 315.4 | 70.6 | 579 | 3 | US-09-878-281A-167 |
| 11 | 312.2 | 69.8 | 579 | 3 | US-09-878-281A-169 |
| 12 | 307.4 | 68.8 | 579 | 3 | US-09-878-281A-171 |
| 13 | 305.8 | 68.4 | 579 | 3 | US-09-878-281A-173 |
| 14 | 302.2 | 67.6 | 579 | 3 | US-09-878-281A-181 |
| 15 | 301 | 67.3 | 447 | 3 | US-08-836-075A-39 |
| 16 | 294.6 | 65.9 | 574 | 3 | US-09-878-281A-120 |
| 17 | 294.6 | 65.9 | 579 | 3 | US-09-878-281A-175 |
| 18 | 291.4 | 65.2 | 579 | 3 | US-09-878-281A-177 |
| 19 | 278.6 | 62.3 | 579 | 3 | US-09-878-281A-179 |
| 20 | 270.6 | 60.5 | 574 | 3 | US-09-878-281A-122 |
| 21 | 270.6 | 60.5 | 579 | 3 | US-09-878-281A-189 |
| 22 | 246.6 | 55.2 | 576 | 2 | US-08-086-428B-43 |
| 23 | 246.6 | 55.2 | 576 | 2 | US-08-468-570-43 |
| 24 | 246.6 | 55.2 | 576 | 2 | US-08-290-655A-43 |

| | | | | | | |
|----|-------|------|-------|---|-------------------|-------------------|
| 25 | 246.6 | 55.2 | 576 | 3 | US-08-466-601A-43 | Sequence 43, App1 |
| 26 | 246.6 | 55.2 | 576 | 6 | PCT-US95-10398-43 | Sequence 43, App1 |
| 27 | 244 | 54.6 | 576 | 2 | US-08-086-428B-42 | Sequence 42, App1 |
| 28 | 244 | 54.6 | 576 | 2 | US-08-468-570-42 | Sequence 42, App1 |
| 29 | 244 | 54.6 | 576 | 2 | US-08-290-665A-42 | Sequence 42, App1 |
| 30 | 244 | 54.6 | 576 | 3 | US-08-466-601A-42 | Sequence 42, App1 |
| 31 | 244 | 54.6 | 576 | 6 | PCT-US95-10398-42 | Sequence 42, App1 |
| 32 | 233.8 | 52.3 | 9401 | 6 | US-08-432-693-1 | Sequence 1, App1 |
| 33 | 233.8 | 52.3 | 9416 | 3 | US-08-811-566-19 | Sequence 19, App1 |
| 34 | 233.8 | 52.3 | 9416 | 3 | US-09-034-756-19 | Sequence 19, App1 |
| 35 | 233.8 | 52.3 | 9416 | 3 | US-09-014-416-2 | Sequence 2, App1 |
| 36 | 233.8 | 52.3 | 9416 | 3 | US-08-811-566-1 | Sequence 1, App1 |
| 37 | 233.8 | 52.3 | 9416 | 3 | US-09-034-756-1 | Sequence 1, App1 |
| 38 | 233.8 | 52.3 | 10803 | 3 | US-10-259-275-17 | Sequence 17, App1 |
| 39 | 232.2 | 51.9 | 9365 | 3 | US-09-827-688-7 | Sequence 7, App1 |
| 40 | 232.2 | 51.9 | 12980 | 3 | US-08-811-566-5 | Sequence 5, App1 |
| 41 | 232.2 | 51.9 | 12980 | 3 | US-09-034-756-5 | Sequence 5, App1 |
| 42 | 230.6 | 51.6 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, App1 |
| 43 | 230.6 | 51.6 | 9416 | 3 | US-10-104-966-13 | Sequence 13, App1 |
| 44 | 230.6 | 51.6 | 9416 | 3 | US-09-929-955-13 | Sequence 13, App1 |
| 45 | 227.4 | 50.9 | 501 | 2 | US-08-483-695-29 | Sequence 29, App1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-37
Sequence 37, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-37

| | | | | |
|-----------------------|-----------------|---------------------|-----------|-------------|
| Query Match | 99.9% | Score 446.6; | DB 3; | Length 447; |
| Best Local Similarity | 100.0% | Pred. No. 1.5e-129; | | |
| Matches 447; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |

| | | |
|----|--|-----|
| Qy | GAGGGATTAAATATGCAACAGGGAATCTCCCGGTGCTCTTTTCTATCTTCTCTG | 60 |
| Db | 1 GAGGGATTAAATATGCAACAGGGAATCTCCCGGTGCTCTTTTCTATCTTCTCTG | 60 |
| Qy | 61 GCACCTTCTCTGTCCTGATGTCCTCCGCTTCGCGCAACATACGCAATGTCCTCGGC | 120 |
| Db | 61 GCACCTTCTCTGTCCTGATGTCCTCCGCTTCGCGCAACATACGCAATGTCCTCGGC | 120 |
| Qy | 121 ATTATCAATGTCACCAATGATCGCCGAATTCAGATATGTTTGAGCGGCACATCAC | 180 |
| Db | 121 ATTATCAATGTCACCAATGATCGCCGAATTCAGATATGTTTGAGCGGCACATCAC | 180 |
| Qy | 181 ATCTTGACCTTCACAGATGCGTGCCCTGCGTAAAGAGGAAATCATTTCAACGCTGCTG | 240 |
| Db | 181 ATCTTGACCTTCACAGATGCGTGCCCTGCGTAAAGAGGAAATCATTTCAACGCTGCTG | 240 |
| Qy | 241 GTGGCCCTTACCCCTTACCGTTCGAGAGGCCATATCGGGGGCCACTTGAGTCTCTACG | 300 |
| Db | 241 GTGGCCCTTACCCCTTACCGTTCGAGAGGCCATATCGGGGGCCACTTGAGTCTCTACG | 300 |
| Qy | 301 AGTCATGTGATGTGAATGAGGGGGCTGCACTGTTTGTTCAGCCCTTATCATCGGGAT | 360 |
| Db | 301 AGTCATGTGATGTGAATGAGGGGGCTGCACTGTTTGTTCAGCCCTTATCATCGGGAT | 360 |
| Qy | 361 CTGTGCGGTGGCTTGTTCCTGATGTGATGTTCTCTTTCCAGCACGGCGCCACTGG | 420 |
| Db | 361 CTGTGCGGTGGCTTGTTCCTGATGTGATGTTCTCTTTCCAGCACGGCGCCACTGG | 420 |
| Qy | 421 ACTTACCCAGGAATGCAATGTTCTCAC | 447 |
| Db | 421 ACTTACCCAGGAATGCAATGTTCTCAC | 447 |

RESULT 2
 US-08-836-075A-29
 Sequence 29, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:
 APPLICANT: MAERTENS, GERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 TITLE OF INVENTION: AGENTS
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836.075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:

```

? APPLICATION NUMBER: EP 95870076.7
? FILING DATE: 28 Jun 1995
? ATTORNEY/AGENT INFORMATION:
? NAME: KAMMERER, PATRICIA A.
? REGISTRATION NUMBER: 29,775
? REFERENCE/DOCKET NUMBER: INNS:004
? INFORMATION FOR SEQ ID NO: 29:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 447 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? HYPOTHETICAL: NO
? ANTI-SENSE: NO
?
? US-08-836-075A-29

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[illegible]

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RESULT 3
US-08-836-075A-35
: Sequence 35, Application US/08836075A
: Patent No. 6180768
:
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEBERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
:
: COMPUTER READABLE FORM:
:

```

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-35

Query Match 86.7%; Score 387.4; DB 3; Length 447;
Best Local Similarity 90.8%; Pred. No. 4,7e-111;
Matches 406; Conservative 5; Mismatches 36; Indels 0; Gaps 0;
QY 1 GACGGATTATTAATGCAAGGAAATCTCCCGGTTCTTTTCTATCTTCTCTG 60
Db 1 GACGGATTATTAATGCAAGGAAATCTCCCGGTTCTTTTCTATCTTCTCTG 60
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATTACCATGTCAACCATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
Db 121 ATTACCATGTCAACCATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
Db 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
QY 301 AGTATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 AGTATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
QY 361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db 361 TTGTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
QY 421 ACTTACCCAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 447
Db 421 ACTTACCCAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 447

RESULT 4
US-08-836-075A-31
Sequence 31, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-31

Query Match 86.0%; Score 384.2; DB 3; Length 447;
Best Local Similarity 91.1%; Pred. No. 4,7e-110;
Matches 407; Conservative 1; Mismatches 39; Indels 0; Gaps 0;
QY 1 GACGGATTATTAATGCAAGGAAATCTCCCGGTTGCTTTTCTATCTTCTCTG 60
Db 1 GACGGATTATTAATGCAAGGAAATCTCCCGGTTGCTTTTCTATCTTCTCTG 60
QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 ATTACCATGTCAACCATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
Db 121 ATTACCATGTCAACCATGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
QY 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
Db 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 300
QY 301 AGTATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db 301 AGTATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360

OY 361 CAGTGGGGGGGCTGTTTCCGAGTTGGTCAGATGTTCTTTCGACACGGGCGCACTGG 420
 Db 364 TTGTGTGGGGCGCTGTGTTCTTGTGTGGTCAGATGTTTCTTTCGACACACGCGACTGG 420
 OY 421 ACTACCCAGGAGATGCATTTGTTCCATC 447
 Db 421 ACTGCCCGAGATTGCAAATGTTCTATC 447

RESULT 5

```

: Sequence 33 Application US/08836075A
: Patent No. 6180768
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: TITLE OF INVENTION: AGENTS
: NUMBER OF SEQUENCES: 207
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft word 6.0 / ASCII text output
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836,075A
: FILING DATE: 21 Apr 1997
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29,775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ ID NO: 33:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
US-08-836-075A-33

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| | | | | |
|---------------------------|--------|---------------------|-----------|-------------|
| Query Match | 84.2%; | Score 376.2; | DB 3; | Length 447; |
| Best Local Similarity | 89.9%; | Pred. No. 1.5e-107; | | |
| Matches 402; Conservative | 1; | Mismatches 44; | Indels 0; | Gaps 0; |

QY 1 GACGGGATTAATTATGCAACAGGGAAVCTCCCGGTTGCTCTTTTCTCATCTTCCTCTTG 60
Db 1 GACGGGATTAATTATGCAACAGGGAACTTCCCGGTGCTCTTTTCTCATCTTCCTCTTG 60
QY 61 GCACTTCTCTCGGCGCTGACTGTCGCCGCTCGGACCACTACGCGAATGTCGAGG 120
Db 61 GCACTTCTCTCGGCGCTGACTGTCGCCGCTCGGACCACTACGCGAATGTCGAGG 120
QY 121 AATTACATGTCACCAATGACTGCCGGAATTCAAGCATAGTGTTTGAAGCGCAATCAC 180

| | | | |
|----|-----|--|-----|
| Db | 121 | ATCATCATATCAACCAAGACATGCCCGGAATTCAACAGATAGTATATGAGGCCACCATTCAC | 180 |
| QY | 181 | ATCTTGCACTTTCCAGGATTCGTGTGCGCTCCGCGGAAGAGGAAATCATTTACAGCTGTGG | 240 |
| Db | 181 | ATCTTGCACTTCCACAGATTGTGCGCTCCGCGGAGAGTGGGGAAATCAGTCAGATTGCTGG | 240 |
| QY | 241 | GTGGCCCTTACCCCTTACCGCTGCGACAGCCATACATTCGGCGCGCCCACTTGAGTCTCTACGG | 300 |
| Db | 241 | GTGGCCCTTTACCCCTTACCATGCGACCGCATATCATTCGGCGCACCGCTTGAGTCTCTGCGG | 300 |
| QY | 301 | AGTATATGGAATGCAATGTGTGGGGGCTGCATGTTGTTGACGCTTTACATTCGGGGAT | 360 |
| Db | 301 | AGTATATGGAATCTATGTGTGGGGGCGGCATCTGTCTGTTCAGCCCTTTACATTCGGGGAT | 360 |
| QY | 361 | CTGTGCGGTGCGCTTGTTCTGTGTTGATCAGATGTTCTCTTTCGACCAACGCGGCCCATCTGG | 420 |
| Db | 361 | TTGTGTGCGGTCGCTTCTTGTTGGTTGATCAGATGTTCTCTTTCGACCAACGCGGCCCATCTGG | 420 |
| QY | 421 | ACTACCCAGAGATGCAATTGTTCCATC | 447 |
| Db | 421 | ACCACCCAGAGATGCAACTGCTCCATTC | 447 |

RESULT 6

```

US-09-878-281A-118
; Sequence 118, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 118
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-118

```

| | | | | |
|-----------------------|-----------------|--------------------|-----------|-------------|
| Query Match | 75.9%; | Score 339.4; | DB 3; | Length 574; |
| Best Local Similarity | 84.8%; | Pred. No. 5.1e-96; | | |
| Matches 379; | Conservative 1; | Mismatches 67; | Indels 0; | Gaps 0; |

[illegible]

QY 421 ACTACCGAGATGCAATGTTTCATC 447
 Db 520 ACTACGAGAGCTCAATGTTTCATC 546

RESULT 7

US-09-878-281A-187
 ; Sequence 187, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 187
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-187

Query Match 75.6%; Score 337.8; DB 3; Length 579;
 Best Local Similarity 84.6%; Pred. No. 1.6e-95;
 Matches 375; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 60
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATTACCATGTCACCAATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
 Db 220 ATTACCATGTCACCAATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279
 QY 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 Db 280 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
 Db 340 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 399
 QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 Db 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 CTGTGGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 Db 460 CTGTGGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 QY 421 ACTACCGAGATGCAATGTTTCATC 447
 Db 520 ACTACGAGAGCTCAATGTTTCATC 546

RESULT 8

US-09-878-281A-183
 ; Sequence 183, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 183
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-183

Query Match 74.5%; Score 333; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 5.1e-94;
 Matches 375; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 60
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATTACCATGTCACCAATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 180
 Db 220 ATTACCATGTCACCAATGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 279
 QY 181 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
 Db 280 ATCTTGACCTTCCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 339
 QY 241 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 300
 Db 340 GTGGCCCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 399
 QY 301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
 Db 400 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
 QY 361 CTGTGGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
 Db 460 CTGTGGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
 QY 421 ACTACCGAGATGCAATGTTTCATC 447
 Db 520 ACTACGAGAGCTCAATGTTTCATC 546

RESULT 9

US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Immunogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878, 281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-185

Query Match 74.5%; Score 333; DB 3; Length 579;
 Best Local Similarity 83.9%; Pred. No. 5.1e-94;
 Matches 375; Conservative 1; Mismatches 71; Indels 0; Gaps 0;

QY 1 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 60
 Db 100 GACGGGATTAATTATGCAACAGGAAATCTCCCGGTTGCTTTTCTATCTTCCTTG 159
 QY 61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120

```

Db      160  GACATTCCTCTGCTGCTGACTGTGTCCACCTCGGCACTCCACTATGCAATGCTCGGGC 219
Qy      121  ATTACCATGTCACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 180
Db      220  GTCTACACGTCACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 279
Qy      181  ATCTTGACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 240
Db      280  ATCTTACACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 339
Qy      241  GTGACCTTACCTCCCTACCGTCGACGCGCATATCATCGGCGCCCACTTGAAGTCTTAC 300
Db      340  GTGACCTTCTCTCCACCGTCGCGCGCTTACATCGGTGCTCAGTTGAATCTTCCGG 399
Qy      301  AGTCATGTGATGTGATGTGTGGGGGCTGCGCACTGTTTTCAGCCCTTTCATCGGGAT 360
Db      400  AGACACGTCGACATGATGTGTGGGGGCTGCTACTGTGTCTCGCTCTATATTTGGGAC 459
Qy      361  CTGTGCGGTGGCTTGTCTCTGTGTGTCAGATGTTCTTCCGACACGCGCCACTGG 420
Db      460  TTGTGTGTGTGGCGTATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 519
Qy      421  ACTACCAAGATGCAATGTTTCATC 447
Db      520  ACTACGAGACTGCAATGTTTCATC 546

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RESULT 10
US-09-878-281A-167

; Sequence 167, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 167

; LENGTH: 579

; TYPE: DNA

; ORGANISM: hepatitis C virus

US-09-878-281A-167

Query Match 70.6%; Score 315.4; DB 3; Length 579;

Best Local Similarity 81.4%; Pred. No. 1.6e-88;

Matches 364; Conservative 1; Mismatches 82; Indels 0; Gaps 0;

```

Qy      1  GACGGGATTAATTATGCAACAGGAAATCTCCCGTGTGCTTTTCTATCTCTCTG 60
Db      100  GACGGGATTAATTATGCAACAGGAAATCTCCCGTGTGCTTTTCTATCTCTCTG 159
Qy      61  GCATCTCTCTGCTGCTGACTGTCCCGCTTCGGCCACAATCACTCCGAATGTCGGGC 120
Db      160  GCGCTCTCTGCTGCTGACTGTCCCGCTTCGGCCACAATCACTCCGAATGTCGGGC 219
Qy      121  ATTACCATGTCACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 180
Db      220  GTCTACACGTCACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 279
Qy      181  ATCTTGACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 240
Db      280  ATCTTACACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 339
Qy      241  GTGACCTTACCTCCCTACCGTCGACGCGCATATCATCGGCGCCCACTTGAAGTCTTAC 300
Db      340  GTGACCTTCTCTCCACCGTCGCGCGCTTACATCGGTGCTCAGTTGAATCTTCCGG 399
Qy      301  AGTCATGTGATGTGATGTGTGGGGGCTGCGCACTGTTTTCAGCCCTTTCATCGGGAT 360

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Db      400  CGTATGTGACCTGTATGTGTAGTGTGCGCACCATGATGTTCCGCTCTATCATGTGGAC 459
Qy      361  CTGTGGGGTGGCTTGTTCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
Db      460  TTGTGTGTGTGGCTTATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 519
Qy      421  ACTACCAAGATGCAATGTTTCATC 447
Db      520  ACTACGAGACTGCAATGTTTCATC 546

```

RESULT 11
US-09-878-281A-169

; Sequence 169, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; CURRENT FILING DATE: 2001-06-12

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 169

; LENGTH: 579

; TYPE: DNA

; ORGANISM: hepatitis C virus

US-09-878-281A-169

Query Match 69.8%; Score 312.2; DB 3; Length 579;

Best Local Similarity 81.0%; Pred. No. 1.6e-87;

Matches 362; Conservative 1; Mismatches 84; Indels 0; Gaps 0;

```

Qy      1  GACGGGATTAATTATGCAACAGGAAATCTCCCGTGTGCTTTTCTATCTCTCTG 60
Db      100  GACGGGATTAATTATGCAACAGGAAATCTCCCGTGTGCTTTTCTATCTCTCTG 159
Qy      61  GCATCTCTCTGCTGCTGACTGTCCCGCTTCGGCCACAATCACTCCGAATGTCGGGC 120
Db      160  GCACTTCTCTGCTGCTGACTGTCCCGCTTCGGCCACAATCACTCCGAATGTCGGGC 219
Qy      121  ATTACCATGTCACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 180
Db      220  GTTATACATGACCAATGATGTCGCCCAATTCAGCATAGTGTGAGGCCGACATCAC 279
Qy      181  ATCTTGACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 240
Db      280  ATCTTACACCTTCCAGATGCGTCCGCTGCGTGAAGAAGGAAATCATTCAGCTGCTGG 339
Qy      241  GTGACCTTACCTCCCTACCGTCGACGCGCATATCATCGGCGCCCACTTGAAGTCTTAC 300
Db      340  GTGACCTTCTCTCCACCGTCGCGCGCTTACATCGGTGCTCAGTTGAATCTTCCGG 399
Qy      301  AGTCATGTGATGTGATGTGTGGGGGCTGCGCACTGTTTTCAGCCCTTTCATCGGGAT 360
Db      400  CGCATGTGACCTGTATGTGTAGTGTGCGCACCATGATGTTCCGCTCTATCATGTGGAC 459
Qy      361  CTGTGGGGTGGCTTGTTCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
Db      460  CTGTGGGGTGGCTTATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 519
Qy      421  ACTACCAAGATGCAATGTTTCATC 447
Db      520  ACTACCAAGACTGTAATGTTTCATC 546

```

RESULT 12
US-09-878-281A-171

; Sequence 171, Application US/09878281A

; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
;; FILE OF INVENTION: and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 171
;; LENGTH: 579
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-171

Query Match 68.8%; Score 307.4; DB 3; Length 579;
Best Local Similarity 80.3%; Pred. No. 5,1e-86;
Matches 359; Conservative 1; Mismatches 87; Indels 0; Gaps 0;

QY 1 GACGGGATTAATATGCAACAGGGAAYCTCCCGGTTGCTTTTCTATCTCTCTG 60
DB 100 GACGGGATTAATATGCAACAGGGAAYCTCTGTTGCTCTTTCTATCTCTCTG 159
QY 61 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACCACTACCGGAATGTCGGGC 120
DB 160 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCTGCAATATCAACAACCTCGGGC 219
QY 121 ATTACCATGTCACCAATGACTGCGCCGAATCAAGCATAGTGTGAGCCGACCATAC 180
DB 220 ATCTACCACTACCAATGACTGCGCCCTTACTGTCATAGCTTTGAGGAGTCCATAC 279
QY 181 ATCTTGACCTTCCAGATGCGTCCCTGCTGGAAGAAGGGAATCATTCAGCTGCTG 240
DB 280 ATCTTGACCTTCCAGATGCGTCCCTGCTGTAAGAACATGGGAACAGTCTCGGCTG 339
QY 241 GTGGCCCTTACCTCCTGCTGCGACGCGCATACATCGCGCGCCACTTGAATCTTAC 300
DB 340 GTACCTTGAACCCCGACGCTGCGCGCATACCTTGGCGCTTCCACTGCACTCCATC 399
QY 301 AGTCATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 CTTACATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 CTGTCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 CTGTCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACCCAGGAATGCAATGTTTCATC 447
DB 520 ACCACCCAGGAGTGCATGTTCCACC 546

RESULT 13

US-09-878-281A-173
; Sequence 173, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 173
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-173

Query Match 68.4%; Score 305.8; DB 3; Length 579;
Best Local Similarity 80.1%; Pred. No. 1.6e-85;
Matches 358; Conservative 1; Mismatches 88; Indels 0; Gaps 0;

QY 1 GACGGGATTAATATGCAACAGGGAAYCTCCCGGTTGCTTTTCTATCTCTCTG 60
DB 100 GACGGGATTAATATGCAACAGGGAAYCTCTGTTGCTCTTTCTATCTCTCTG 159
QY 61 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACCACTACCGGAATGTCGGGC 120
DB 160 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCTGCAATATCAACAACCTCGGGC 219
QY 121 ATTACCATGTCACCAATGACTGCGCCGAATTCAGGATAGTGTGAGCCGACCAATAC 180
DB 220 ATCTACCACTACCAATGACTGCGCCCTTACTGTCATAGTCTTTGAGGAGTCCATAC 279
QY 181 ATCTTGACCTTCCAGATGCGTCCCTGCTGGAAGAAGGGAATCATTCACCTGCTG 240
DB 280 ATCTTGACCTTCCAGATGCGTCCCTGCTGTAAGAACATGGGAACAGTCCATGCTG 339
QY 241 GTGGCCCTTACCTCCTGCTGCGACGCGCATACATGCGCGCCACTTGAATCTTAC 300
DB 340 ATGACCTTGAACCCCTGCTGCGCGCCACACATTTGGCGCTCCACTGAGTCCATGCG 399
QY 301 AGTCATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 CTTACATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 CTGTCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
DB 460 CTGTCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 519
QY 421 ACTACCCAGGAATGCAATGTTTCATC 447
DB 520 ACCACCCAGGAGTGCATGTTCCACC 546

RESULT 14

US-09-878-281A-181
; Sequence 181, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 181
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (152)..(152)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

Query Match 67.6%; Score 302.2; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 2.2e-84;
Matches 355; Conservative 1; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGGATTAATATGCAACAGGGAAYCTCCCGGTTGCTTTTCTATCTCTCTG 60
DB 100 GACGGGATTAATATGCAACAGGGAAYCTCTGTTGCTCTTTCTATCTCTCTG 159
QY 61 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCACCACTACCGGAATGTCGGGC 120
DB 160 GCACCTTCTCTGCTGCTGACTGTCCCGCTTCGCGCTCAGACATACCGGAATGTCGGGC 219
QY 121 ATTACCATGTCACCAATGACTGCGCCGAATTCAGGATAGTGTGAGCCGACCAATAC 180
DB 220 ATCTACCACTACCAATGACTGCGCCGAATTCAGGATAGTGTGAGCCGACCAATAC 279
QY 181 ATCTTGACCTTCCAGATGCGTCCCTGCTGGAAGAAGGGAATCATTCACCTGCTG 240

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Db      280 ATCATGACTTACCGAGGATGATACCGCTGAGGACCGGGAAGTTGCGCTGCTGG 339
Qy      241 GTGGCCCTTACCCCTACCGTGGCAGCGGCATACATGCGCGGCACATGAGTCTTACCG 300
Db      340 GTATCTCTGACACTACTGCTGCTGCTCCCTACCTCGGGCTCGCTTACCTGCTACCG 399
Qy      301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db      400 CGGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
Qy      361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db      460 CTCTGTGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 519
Qy      421 ACTACCGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 446
Db      520 ACCACTGAGACTGCACTGCTCAT 545

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RESULT 15

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US-08-836-075A-39
; Sequence 39, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 9487016.9
; FILING DATE: 21 Oct 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 9587007.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-39

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Query Match      67.3%; Score 301; DB 3; Length 447;
Best Local Similarity 79.4%; Pred. No. 4.7e-84;
Matches 355; Conservative 1; Mismatches 91; Indels 0; Gaps 0;

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Db      1 GAGGGATCAATATATCAACAGGAAATCTCCCGGTGCTTTTCTATCTTCTCTTG 60
Qy      61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Db      61 GCACTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Qy      121 ATTACCATGTCACCAATGATGCTGCGGAAATTAAGGATGATGATGATGATGATGATGATGAT 180
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Qy      181 ATCTTCACCTTTCAGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
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Qy      241 GTGGCCCTTACCCCTACCGTGGCAGCGGCATACATGCGCGGCTGATGATGATGATGATGAT 300
Db      241 GTGGCCCTTACCACTACCGTGGCAGCGGCATACATGCTTCCGCTTCACTTATGTCGTA 300
Qy      301 AGTCATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Db      301 CGGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
Qy      361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Db      361 CTGTGCGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420
Qy      421 ACTACCGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 447
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Search completed: January 11, 2006, 04:37:57
 Job time : 112.089 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 01:42:51 ; Search time 111.089 Seconds
(without alignments)
7152.570 Million cell updates/sec

Title: US-08-836-075B-39
Perfect score: 447
Sequence: 1 gacggatcatatgcacac.....aagatcgcactgttcacac 447

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 447 | 100.0 | 447 | 3 | US-08-836-075A-39 |
| 2 | 344.2 | 77.0 | 579 | 3 | US-09-878-281A-181 |
| 3 | 315.8 | 70.6 | 574 | 3 | US-09-878-281A-120 |
| 4 | 315.8 | 70.6 | 579 | 3 | US-09-878-281A-175 |
| 5 | 315.8 | 70.6 | 574 | 3 | US-09-878-281A-118 |
| 6 | 303 | 67.8 | 574 | 3 | US-09-878-281A-171 |
| 7 | 301.4 | 67.4 | 579 | 3 | US-09-878-281A-187 |
| 8 | 301.4 | 67.4 | 579 | 3 | US-09-878-281A-187 |
| 9 | 301 | 67.3 | 447 | 3 | US-08-836-075A-37 |
| 10 | 299.8 | 67.1 | 574 | 3 | US-09-878-281A-122 |
| 11 | 299.8 | 67.1 | 579 | 3 | US-09-878-281A-169 |
| 12 | 299.8 | 67.1 | 579 | 3 | US-09-878-281A-189 |
| 13 | 295 | 66.0 | 579 | 3 | US-08-836-075A-167 |
| 14 | 293.4 | 65.6 | 447 | 3 | US-08-836-075A-35 |
| 15 | 293.4 | 65.6 | 579 | 3 | US-09-878-281A-185 |
| 16 | 291.8 | 65.3 | 579 | 3 | US-09-878-281A-173 |
| 17 | 288.6 | 64.6 | 447 | 3 | US-08-836-075A-29 |
| 18 | 287 | 64.2 | 447 | 3 | US-08-836-075A-31 |
| 19 | 282.2 | 63.1 | 447 | 3 | US-08-836-075A-33 |
| 20 | 280.6 | 62.8 | 579 | 3 | US-09-878-281A-183 |
| 21 | 267.8 | 59.9 | 579 | 3 | US-09-878-281A-179 |
| 22 | 235 | 52.6 | 576 | 2 | US-08-086-428B-42 |
| 23 | 235 | 52.6 | 576 | 2 | US-08-468-570-42 |
| 24 | 235 | 52.6 | 576 | 2 | US-08-290-655A-42 |

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|----|-------|------|-------|---|-------------------|-------------------|
| 25 | 235 | 52.6 | 576 | 3 | US-08-466-601A-42 | Sequence 42, App1 |
| 26 | 235 | 52.6 | 576 | 6 | PCT-US95-10398-42 | Sequence 42, App1 |
| 27 | 227.8 | 51.0 | 9599 | 3 | US-09-014-416-2 | Sequence 2, App1 |
| 28 | 227.8 | 51.0 | 9646 | 3 | US-08-811-566-1 | Sequence 1, App1 |
| 29 | 227.8 | 51.0 | 9646 | 3 | US-09-034-756-1 | Sequence 1, App1 |
| 30 | 227.8 | 51.0 | 10803 | 3 | US-10-259-275-17 | Sequence 17, App1 |
| 31 | 226.2 | 50.6 | 9365 | 3 | US-09-827-688-7 | Sequence 7, App1 |
| 32 | 226.2 | 50.6 | 12980 | 3 | US-08-811-566-5 | Sequence 5, App1 |
| 33 | 226.2 | 50.6 | 12980 | 3 | US-09-034-756-5 | Sequence 5, App1 |
| 34 | 224.6 | 50.2 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, App1 |
| 35 | 224.6 | 50.2 | 9416 | 3 | US-10-104-966-13 | Sequence 13, App1 |
| 36 | 224.6 | 50.2 | 9416 | 3 | US-09-929-955-13 | Sequence 13, App1 |
| 37 | 223 | 49.9 | 501 | 2 | US-08-483-695-2 | Sequence 2, App1 |
| 38 | 223 | 49.9 | 501 | 2 | US-08-483-695-27 | Sequence 27, App1 |
| 39 | 223 | 49.9 | 501 | 2 | US-07-965-285-2 | Sequence 2, App1 |
| 40 | 223 | 49.9 | 501 | 2 | US-07-965-285-27 | Sequence 27, App1 |
| 41 | 223 | 49.9 | 501 | 2 | US-08-487-231-2 | Sequence 2, App1 |
| 42 | 223 | 49.9 | 501 | 2 | US-08-487-231-27 | Sequence 27, App1 |
| 43 | 223 | 49.9 | 501 | 3 | US-09-201-912-2 | Sequence 2, App1 |
| 44 | 223 | 49.9 | 501 | 3 | US-09-201-912-27 | Sequence 27, App1 |
| 45 | 222 | 49.7 | 576 | 2 | US-08-086-428B-40 | Sequence 40, App1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-39
Sequence 39, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 39:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-39

Query Match 100.0%; Score 447; DB 3; Length 447;
Best Local Similarity 100.0%; Pred. No. 8.7e-125;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 60
DB 1 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 60
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 120
DB 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 120
QY 121 ATTTACACGTCACCAAGAGCTGCGGCACTCCGAGCATAGATGATGATCGGACATAC 180
DB 121 ATTTACACGTCACCAAGAGCTGCGGCACTCCGAGCATAGATGATGATCGGACATAC 180
QY 181 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 240
DB 181 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 240
QY 241 GTGGCCTTAAACCTACCGTGGCCGCCCATACCTTCGCGCTCCACTTATGTCGTA 300
DB 241 GTGGCCTTAAACCTACCGTGGCCGCCCATACCTTCGCGCTCCACTTATGTCGTA 300
QY 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
QY 361 CTCTGCGGGGGTGCCTTCTAGTGGGAGATGTTTCACTTCAGCCGCGCTGCGCACTG 420
DB 361 CTCTGCGGGGGTGCCTTCTAGTGGGAGATGTTTCACTTCAGCCGCGCTGCGCACTG 420
QY 421 ACTGTCCAAGACTGCAACTGTTTCATC 447
DB 421 ACTGTCCAAGACTGCAACTGTTTCATC 447

RESULT 2
US-09-878-281A-181
; Sequence 181, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent version 3.1
; SEQ ID NO 181
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
; NAME/KEY: misc_feature
; LOCATION: (152)..(152)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-181

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Query Match 77.0%; Score 344.2; DB 3; Length 579;
Best Local Similarity 85.7%; Pred. No. 8.5e-94;
Matches 382; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 60
DB 100 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 120
DB 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 120

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DB 160 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGCACTACCGGAATGTCGAGG 219
QY 121 ATTTACACGTCACCAAGAGTGCCTCCGAACTCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
DB 220 ATTTACACGTCACCAAGAGTGCCTCCGAACTCCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 279
QY 181 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 240
DB 280 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 339
QY 241 GTGGCCTTAAACCTACCGTGGCCGCCCATACCTTCGCGCTCCACTTATGTCGTA 300
DB 340 GTATCTTGAACACTTACTGTGCTGCTCCCTACCTCGGGGCTTCGCTTACGTCGTA 399
QY 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459
QY 361 CTCTGCGGGGGTGCCTTCTAGTGGGAGATGTTTCACTTCAGCCGCGCTGCGCACTG 420
DB 460 CTCTGCGGGGGTGCCTTCTAGTGGGAGATGTTTCACTTCAGCCGCGCTGCGCACTG 519
QY 421 ACTGTCCAAGACTGCAACTGTTTCAT 446
DB 520 ACCACTCAGGACTGCAACTGTTTCAT 545

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RESULT 3
US-09-878-281A-120
; Sequence 120, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent version 3.1
; SEQ ID NO 120
; LENGTH: 574
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-120

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Query Match 70.6%; Score 315.8; DB 3; Length 574;
Best Local Similarity 81.7%; Pred. No. 3e-85;
Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

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QY 1 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 60
DB 100 GACGGGATCAATTATGCAAGGGAACCTCCCGGTTGCTTTCTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 120
DB 160 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTGAGATTATCGGAATGTCGAGG 219
QY 121 ATTTACACGTCACCAAGAGCTGCGGCACTCCGAGCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 180
DB 220 ATTTACACGTCACCAAGAGCTGCGGCACTCCGAGCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 279
QY 181 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 240
DB 280 ATCTTACACCTACAGGAGTGTACCTGTGTGAAGATGGAACACTTCGCGCTGCTG 339
QY 241 GTGGCCTTAAACCTACCGTGGCCGCCCATACCTTCGCGCTCCACTTATGTCGTA 300
DB 340 GTTCTTTTAAACCACTGCTGCTGCTCCCTATGTTGGGCGCGCTCGAATGCAAGCGG 399
QY 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 400 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 459

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QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 420
 Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 519
 QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
 Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 4

US-09-878-281A-175
 ; Sequence 175, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 175
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-175

Query Match 70.6%; Score 315.8; DB 3; Length 579;
 Best Local Similarity 81.7%; Pred. No. 3e-85;
 Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCACTC 60
 Db 100 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCACTC 159
 QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
 Db 220 ATTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 279
 QY 181 ATCTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
 Db 280 ATCTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 339
 QY 241 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
 Db 340 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 399
 QY 301 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
 Db 400 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
 QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 420
 Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 519
 QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
 Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 5

US-09-878-281A-177
 ; Sequence 177, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 177
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-177

Query Match 70.6%; Score 315.8; DB 3; Length 579;
 Best Local Similarity 81.7%; Pred. No. 3e-85;
 Matches 365; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCACTC 60
 Db 100 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCACTC 159
 QY 61 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
 Db 160 GCACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 219
 QY 121 ATTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
 Db 220 ATTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 279
 QY 181 ATCTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
 Db 280 ATCTTACCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 339
 QY 241 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
 Db 340 GTGGCTTAAACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 399
 QY 301 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
 Db 400 CGGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
 QY 361 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 420
 Db 460 CTCTGGGGGGGCTTCTAGTGGGCGAGATGTTACCTTCAGCCGCGGTGGCAGCTGG 519
 QY 421 ACTGTCCAGAGCTGCACTGTTTCATC 447
 Db 520 ACTACCCAGAGCTGCACTGTTTCATC 546

RESULT 6

US-09-878-281A-118
 ; Sequence 118, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878,281A
 ; CURRENT FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 118
 ; LENGTH: 574
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 US-09-878-281A-118

Query Match 67.8%; Score 303; DB 3; Length 574;
 Best Local Similarity 79.9%; Pred. No. 2.1e-81;
 Matches 357; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1 GACGGGATCAATTATGCAACAGGAACTCCCGGTTGCTTTCTATCTTCACTC 60

```
Db 100 GACGGGATCAATTATGACAGAGGAATCTCCGGTGGCTCTTCTCATCTTCTCTG 159
Qy 61 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
Db 160 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
Qy 121 ATTACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCAC 180
Db 220 ATCTATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 279
Qy 181 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 240
Db 280 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 339
Qy 241 GTGGCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAAC 300
Db 340 GTGGCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAAC 399
Qy 301 CGGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
Db 400 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 459
Qy 361 CTCTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 420
Db 460 CTGTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 519
Qy 421 ACTGTCCAAAGTCGAACTGTTCATC 447
Db 520 ACTAGCAGAGTCGAAATGTTCCATC 546
```

RESULT 7
US-09-878-281A-171

```
; Sequence 171, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-171
```

```
Query Match 67.4%; Score 301.4; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 6.5e-81;
Matches 356; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATTATGACAGAGGAATCTCCGGTGGCTCTTCTCATCTTCTCTG 60
Db 100 GACGGGATCAATTATGACAGAGGAATCTCCGGTGGCTCTTCTCATCTTCTCTG 159
Qy 61 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
Db 160 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
Qy 121 ATTACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCAC 180
Db 220 ATCTATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 279
Qy 181 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 240
Db 280 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 339
Qy 241 GTGGCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAAC 300
```

```
Db 340 GTAGCCTTGAACCCCAAGTCGCGCGCCATTAATCTTGGCGCTCCACATGATCAATGCG 399
Qy 301 CGGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
Db 400 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 459
Qy 361 CTCTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 420
Db 460 CTGTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 519
Qy 421 ACTGTCCAAAGTCGAACTGTTCATC 447
Db 520 ACCACCGAGAGTCGAAATGTTCCACC 546
```

RESULT 8

```
US-09-878-281A-187
; Sequence 187, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878, 281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 187
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-187
```

```
Query Match 67.4%; Score 301.4; DB 3; Length 579;
Best Local Similarity 79.6%; Pred. No. 6.5e-81;
Matches 356; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

Qy 1 GACGGGATCAATTATGACAGAGGAATCTCCGGTGGCTCTTCTCATCTTCTCTG 60
Db 100 GACGGGATCAATTATGACAGAGGAATCTCCGGTGGCTCTTCTCATCTTCTCTG 159
Qy 61 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 120
Db 160 GCATCTCTGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 219
Qy 121 ATTACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCACCAAGTCAC 180
Db 220 ATCTATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 279
Qy 181 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 240
Db 280 ATCTTACCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 339
Qy 241 GTGGCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAAC 300
Db 340 GTGGCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAACCTTAAAC 399
Qy 301 CGGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 360
Db 400 AGTATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 459
Qy 361 CTCTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 420
Db 460 CTGTGCGGGGTCCTTCTGATGTGATGTGATGTGATGTGATGTGATGTGATGTG 519
Qy 421 ACTGTCCAAAGTCGAACTGTTCATC 447
Db 520 ACTAGCAGAGTCGAAATGTTCCATC 546
```

RESULT 9
US-08-836-075A-37

```

: Sequence 37, Application US/08836075A
: Patent No. 6180768
: GENERAL INFORMATION:
: APPLICANT: MAERTENS, GEBERT
: APPLICANT: STUYVER, LIEVEN
: TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
: TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
: NUMBER OF SEQUENCES: 207
: CORRESPONDENCE ADDRESSES:
: ADDRESS: ARNOLD, WHITE & DURKEE
: STREET: P.O. BOX 4433
: CITY: HOUSTON
: STATE: TEXAS
: COUNTRY: USA
: ZIP: 77210-4433
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Microsoft Word 6.0 / ASCII text output
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/836.075A
: FILING DATE: 21 Apr 1997
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/EP95/04155
: FILING DATE: 23 Oct 1995
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 94870166.9
: FILING DATE: 21 Oct 1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: EP 95870076.7
: FILING DATE: 28 Jun 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: KAMMERER, PATRICIA A.
: REGISTRATION NUMBER: 29,775
: REFERENCE/DOCKET NUMBER: INNS:004
: INFORMATION FOR SEQ ID NO: 37:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 447 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
: US-08-836-075A-37

```

```

Query Match      67.3%; Score 301; DB 3; Length 447;
Best Local Similarity 79.4%; Pred. No. 7,9e-81;
Matches 355; Conservative 1; Mismatches 91; Indels 0; Gaps 0;

```

```

QY 1 GACGGGATCAATTATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 1 GACGGGATTAATATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCATCTG 60
QY 61 GCACTTCTCTGCGCTGACGTCGTCGCGGCTCGGCTGAGATTAATGGAATGTCGGGC 120
DB 61 GCACTTCTCTGCGCTGACGTCGTCGCGGCTCGGCTGAGATTAATGGAATGTCGGGC 120
QY 121 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 180
DB 121 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 180
QY 121 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 180
DB 121 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 180
QY 181 ATCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTGGAACACTTGGCGTGTG 240
DB 181 ATCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTGGAACACTTGGCGTGTG 240
QY 241 GTGGCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTTTCGCTACCTATGTCGTCG 300
DB 241 GTGGCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTTTCGCTACCTATGTCGTCG 300
QY 301 CGGATGTGATGTGATGTGAGTGAAGCTAACCTATGTCGTCGTCGTCGTCGTCG 360
DB 301 CGGATGTGATGTGATGTGAGTGAAGCTAACCTATGTCGTCGTCGTCGTCGTCG 360

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DB 301 AGTCATGTGATGTGATGTGAGTGAAGCTAACCTATGTCGTCGTCGTCGTCGTCG 360
QY 361 CTGCGGGGGGTCCTCCAGTGGGGGAGATGTTTCACTTCCAGCGCGCTGCGCACTGG 420
DB 361 CTGCGGGGGGTCCTCCAGTGGGGGAGATGTTTCACTTCCAGCGCGCTGCGCACTGG 420
QY 421 ACTGTCCAGACCTGCAACTGTTCATC 447
DB 421 ACTGTCCAGACCTGCAACTGTTCATC 447

```

```

RESULT 10
US-09-878-281A-122
: Sequence 122, Application US/09878281A
: Patent No. 6762024
: GENERAL INFORMATION:
: APPLICANT: Immunogenetics N.V.
: TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
: FILE REFERENCE: 35
: CURRENT APPLICATION NUMBER: US/09/878.281A
: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 122
: LENGTH: 574
: TYPE: DNA
: ORGANISM: hepatitis C virus
: US-09-878-281A-122

```

```

Query Match      67.1%; Score 299.8; DB 3; Length 574;
Best Local Similarity 79.4%; Pred. No. 2e-80;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

```

RESULT 11

```

US-09-878-281A-169
: Sequence 169, Application US/09878281A
: Patent No. 6762024
: GENERAL INFORMATION:

```

QY 1 GACGGGATCAATTATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCATCTG 60

DB 100 GACGGGATTAATATGCAACAGGGAACCTCCCGGTTGCTCTTCTATCTTCATCTG 159

QY 61 GCACTTCTCTGCGCTGACGTCGTCGCGGCTCGGCTGAGATTAATGGAATGTCGGGC 120

DB 160 GCACTTCTCTGCGCTGACGTCGTCGCGGCTCGGCTGAGATTAATGGAATGTCGGGC 219

QY 121 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 180

DB 220 ATTACACGTCACCAAGCACTGCGGCACTGAGTAGTATGAGTGCAGCATCAC 279

QY 181 ATCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTGGAACACTTGGCGTGTG 240

DB 280 ATCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTTTCGCTACCTATGTCGTCG 339

QY 241 GTGGCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTTTCGCTACCTATGTCGTCG 300

DB 340 GTGGCTTACACCTACCAAGGCTGTGTAACCTGTGTGAAGACTTTCGCTACCTATGTCGTCG 399

QY 301 CGGATGTGATGTGATGTGAGTGAAGCTAACCTATGTCGTCGTCGTCGTCGTCG 360

DB 400 CGGATGTGATGTGATGTGAGTGAAGCTAACCTATGTCGTCGTCGTCGTCGTCG 459

QY 361 CTGCGGGGGGTCCTCCAGTGGGGGAGATGTTTCACTTCCAGCGCGCTGCGCACTGG 420

DB 460 CTGCGGGGGGTCCTCCAGTGGGGGAGATGTTTCACTTCCAGCGCGCTGCGCACTGG 519

QY 421 ACTGTCCAGACCTGCAACTGTTCATC 447

DB 520 ACTGTCCAGACCTGCAACTGTTCATC 447

```
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 169
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-169

Query Match      67.1%; Score 299.8; DB 3; Length 579;
Best Local Similarity 79.4%; Pred. No. 2e-80;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 120
DB 160 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 219
QY 121 ATTACACAGTCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 180
DB 220 GTTTATCATCATCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 279
QY 181 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 240
DB 280 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 339
QY 241 GTGGCCTTAACACTACCGTGGCGGCCCACTATTGCTGCTACCTATGCTGTAAG 300
DB 340 GTGGCCTTAACACTACCGTGGCGGCCCTGCTTACCTGCTGCGAGCCCTTGGCG 399
QY 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 400 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 CTCTGCGGGGGTGCCTTCTAGTGGGGAATGTTCACCTTCAGCGCGCTGGCACTGG 420
DB 460 CTCTGCGGGGGTGCCTTCTAGTGGGGAATGTTCACCTTCAGCGCGCTGGCACTGG 519
QY 421 ACTGTCCAAAGCTGCACTGTTCCATC 447
DB 520 ACCAGCCAGAGCTGTAAATGTTCATC 546

RESULT 12
US-09-878-281A-189
; Sequence 189, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 189
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-189

Query Match      67.1%; Score 299.8; DB 3; Length 579;
Best Local Similarity 79.4%; Pred. No. 2e-80;
Matches 355; Conservative 0; Mismatches 92; Indels 0; Gaps 0;
```

```
QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 120
DB 160 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 219
QY 121 ATTACACAGTCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 180
DB 220 GTTTATCATCATCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 279
QY 181 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 240
DB 280 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 339
QY 241 GTGGCCTTAACACTACCGTGGCGGCCCACTATTGCTGCTACCTATGCTGTAAG 300
DB 340 GTGGCCTTAACACTACCGTGGCGGCCCTGCTTACCTGCTGCGAGCCCTTGGCG 399
QY 301 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 400 CGGATGTGATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 459
QY 361 CTCTGCGGGGGTGCCTTCTAGTGGGGAATGTTCACCTTCAGCGCGCTGGCACTGG 420
DB 460 CTCTGCGGGGGTGCCTTCTAGTGGGGAATGTTCACCTTCAGCGCGCTGGCACTGG 519
QY 421 ACTGTCCAAAGCTGCACTGTTCCATC 447
DB 520 ACCAGCCAGAGCTGTAAATGTTCATC 546
```

```
RESULT 13
US-09-878-281A-167
; Sequence 167, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 167
; LENGTH: 579
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-167

Query Match      66.0%; Score 295; DB 3; Length 579;
Best Local Similarity 78.7%; Pred. No. 5.5e-79;
Matches 352; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
DB 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
QY 61 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 120
DB 160 GCACTTCTCTGCTGCTGACTGTCCCGGCTCGGCTCAGCATTTATGGAATGTCTGGGC 219
QY 121 ATTACACAGTCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 180
DB 220 GTTTATCATCATCAACAGACTGCGGAACTCCAGCATGATGATGAGTCCGACATCAC 279
QY 181 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 240
DB 280 ATCTTACACCTACAGAGGTGTGTACCTGTGTGAAGACTGGAAACACTTGGCGTGTGG 339
```

QY 241 GTGGCTTAAACCTACCTGCGCGCCCACTTCCGCTCACTTATGTCGTAACG 300
 Db 340 GTGGCCCTCACTCCACAGTAGCTGCGCAATACCGCGTGTCTCGCTTGAGCCCTTGCG 399
 QY 301 CGGATGTGATCTGATGTGAGTGAGAGTACCTATGCTGCGCTCTTACGTTGAGAC 360
 Db 400 CGTATGTGACCTGATGTGAGTGAGTGCACCAATGTTCGCGCTCTTACATCGGAGAC 459
 QY 361 CTGTCGCGGGGTGCTCTCTAGTGGGCAATGTTCACTTCAGCGCGGTGCGCACTGG 420
 Db 460 TTGTCGCGGTGCTTATCTTGTGTGGCCAAATGTTCACTTCAGCGCGCACTGG 519
 QY 421 ACTGTCCAGACTGCAACTGTTCCATC 447
 Db 520 ACCACTCAGAGCTGCAATGTTCCATC 546

RESULT 14
 US-08-836-075A-35
 ; Sequence 35, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; TITLE OF INVENTION: AGENTS
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION NUMBER: US/08/836.075A
 ; FILING DATE: 21 Apr 1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/EP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: EP 95870076.7
 ; FILING DATE: 28 Jun 1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: KAMMERER, PATRICIA A.
 ; REGISTRATION NUMBER: 29,775
 ; REFERENCE/DOCKET NUMBER: INNS:004
 ; INFORMATION FOR SEQ ID NO: 35:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 447 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; HYPOTHEICAL: NO
 ; ANTI-SENSE: NO
 ; US-08-836-075A-35

Query Match 65.6%; Score 293.4; DB 3; Length 447;
 Best Local Similarity 77.9%; Pred. No. 1.5e-78;
 Matches 348; Conservative 4; Mismatches 95; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
 |||
 Db 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60

Db 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
 QY 61 GCACTTCTCTGAGCTGACTGTCGCGGCTCGGCTCAGCATATGGAATGTCGAGG 120
 Db 61 GCACTTCTCTGAGCTGACTGTCGCGGCTCGGCTCAGCATATGGAATGTCGAGG 120
 QY 121 ATTACCAAGTCACCAAGCACTGCGGAACTCCAGATAGTATGATGCGACATCAC 180
 Db 121 ATTACCAAGTCACCAAGCACTGCGGAACTCCAGATAGTATGATGCGACATCAC 180
 QY 181 ATCTTACCTTACCAAGGATGATGCTGTGTGAACACTGGAACTTGGGCTCTGG 240
 Db 181 ATCTTACCTTACCAAGGATGATGCTGTGTGAACACTGGAACTTGGGCTCTGG 240
 QY 241 GTGGCCCTTAAACCTACCTGCGCGCCCACTTCCGCTCACTTATGTCGTAACGG 300
 Db 241 GTGGCCCTTAAACCTACCTGCGCGCCCACTTCCGCTCACTTATGTCGTAACGG 300
 QY 301 CGGATGTGATCTGATGTGAGTGGGTGAGCTACCTATGCTGCGCTTACGTTGAGAC 360
 Db 301 AGTCATGTGATCTGATGTGAGTGGGTGAGCTACCTATGCTGCGCTTACGTTGAGAC 360
 QY 361 CTCTGCGGGGTGCTCTCTAGTGGGCAATGTTCACTTCCAGCGCGGTGCGCACTGG 420
 Db 361 TTGTCGCGGGGTGCTCTCTAGTGGGCAATGTTCACTTCCAGCGCGGTGCGCACTGG 420
 QY 421 ACTGTCCAGACTGCAACTGTTCCATC 447
 Db 421 ACTGTCCAGACTGCAACTGTTCCATC 447

RESULT 15
 US-09-878-281A-185
 ; Sequence 185, Application US/09878281A
 ; Patent No. 6762024
 ; GENERAL INFORMATION:
 ; APPLICANT: Innogenetics N.V.
 ; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 ; TITLE OF INVENTION: and therapy
 ; FILE REFERENCE: 35
 ; CURRENT APPLICATION NUMBER: US/09/878.281A
 ; FILING DATE: 2001-06-12
 ; NUMBER OF SEQ ID NOS: 284
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 185
 ; LENGTH: 579
 ; TYPE: DNA
 ; ORGANISM: hepatitis C virus
 ; US-09-878-281A-185

Query Match 65.6%; Score 293.4; DB 3; Length 579;
 Best Local Similarity 78.5%; Pred. No. 1.7e-78;
 Matches 351; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 1 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 60
 Db 100 GACGGATCAATTATGCAACAGGAACTCCCGGTTGCTCTTCTATCTTCATCTG 159
 QY 61 GCACTTCTCTGAGCTGACTGTCGCGGCTCGGCTCAGCATATGGAATGTCGAGG 120
 Db 160 GCACTTCTCTGAGCTGACTGTCGCGGCTCGGCTCAGCATATGGAATGTCGAGG 219
 QY 121 ATTACCAAGTCACCAAGCACTGCGGAACTCCAGATAGTATGATGCGACATCAC 180
 Db 220 GTCACCAAGTCACCAAGCACTGCGGAACTCCAGATAGTATGATGCGACATCAC 279
 QY 181 ATCTTACCTTACCAAGGATGATGCTGTGTGAACACTGGAACTTGGGCTCTGG 240
 Db 280 ATCTTACCTTACCAAGGATGATGCTGTGTGAACACTGGAACTTGGGCTCTGG 339
 QY 241 GTGGCCCTTAAACCTACCTGCGCGCCCACTTCCGCTCACTTATGTCGTAACGG 300
 Db 340 GTGGCCCTTAAACCTACCTGCGCGCCCACTTCCGCTCACTTATGTCGTAACGG 399

Qy 301 CGGCATGTGATCTGATGGTGGTGCAGCTACCTTATGTCGCTTCTAAGTTGAGAC 360
 Db 400 AGACACGTGGACATGATGGTGGGCGCTGTACTGTGTCTCCGCTCTTATATTGGGAC 459
 Qy 361 CTCTGCGGGGGTGCCTTCTTAGTGGGGCAGATGTTCACTTCCAGCCGCGTGGCACTGG 420
 Db 460 TTGTGTGGTGGCGTATTCTTGTGTGTCAGATGTTTCTTCCGGCCACGACGCCACTGG 519
 Qy 421 ACTGTCCAAGACTGCACTGTTCATC 447
 Db 520 ACTACGCGAGACTGCAATTGTTCCATC 546

Search completed: January 11, 2006, 04:37:58
 Job time : 112.089 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 : Search time 231.737 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-41

Perfect score: 957

Sequence: 1 atgagcaccctcccaaac.....tcacgggacacagatgcga 957

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/prodata/1/ina/1 COMB.seq: *
2: /cgn2_6/prodata/1/ina/5 COMB.seq: *
3: /cgn2_6/prodata/1/ina/6A COMB.seq: *
4: /cgn2_6/prodata/1/ina/6B COMB.seq: *
5: /cgn2_6/prodata/1/ina/H COMB.seq: *
6: /cgn2_6/prodata/1/ina/PCTUS COMB.seq: *
7: /cgn2_6/prodata/1/ina/PP COMB.seq: *
8: /cgn2_6/prodata/1/ina/RE COMB.seq: *
9: /cgn2_6/prodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 953 | 99.6 | 957 | 3 | US-08-836-075A-41 |
| 2 | 642.4 | 67.1 | 957 | 3 | US-08-836-075A-43 |
| 3 | 625.4 | 65.4 | 957 | 3 | US-08-836-075A-47 |
| 4 | 548.8 | 57.3 | 1167 | 2 | US-08-324-977-9 |
| 5 | 548.8 | 57.3 | 1167 | 2 | US-08-384-616-9 |
| 6 | 548.8 | 57.3 | 1167 | 2 | US-08-904-686A-9 |
| 7 | 548.8 | 57.3 | 1167 | 2 | US-09-315-850-9 |
| 8 | 548.8 | 57.3 | 1499 | 2 | US-08-324-977-3 |
| 9 | 548.8 | 57.3 | 1499 | 2 | US-08-384-616-3 |
| 10 | 548.8 | 57.3 | 1499 | 2 | US-08-904-686A-3 |
| 11 | 548.8 | 57.3 | 1499 | 2 | US-09-315-850-3 |
| 12 | 548.8 | 57.3 | 6039 | 2 | US-08-324-977-11 |
| 13 | 548.8 | 57.3 | 6039 | 2 | US-08-384-616-11 |
| 14 | 548.8 | 57.3 | 6039 | 2 | US-08-904-686A-11 |
| 15 | 548.8 | 57.3 | 6039 | 2 | US-09-315-850-11 |
| 16 | 548.8 | 57.3 | 9030 | 2 | US-08-324-977-13 |
| 17 | 548.8 | 57.3 | 9030 | 2 | US-08-384-616-13 |
| 18 | 548.8 | 57.3 | 9030 | 2 | US-08-904-686A-13 |
| 19 | 548.8 | 57.3 | 9030 | 2 | US-09-315-850-13 |
| 20 | 548.8 | 57.3 | 9416 | 2 | US-08-324-977-1 |
| 21 | 548.8 | 57.3 | 9416 | 2 | US-08-384-616-1 |
| 22 | 548.8 | 57.3 | 9416 | 2 | US-08-904-686A-1 |
| 23 | 548.8 | 57.3 | 9416 | 3 | US-09-315-850-1 |
| 24 | 548.8 | 57.3 | 9416 | 3 | US-08-823-895A-27 |

| | | | | | | |
|----|-------|------|-------|---|-------------------|-------------------|
| 25 | 548.2 | 57.3 | 1539 | 2 | US-08-470-426B-16 | Sequence 16, Appl |
| 26 | 548.2 | 57.3 | 1663 | 2 | US-08-470-426B-13 | Sequence 13, Appl |
| 27 | 543.4 | 56.8 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, Appl |
| 28 | 543.4 | 56.8 | 9416 | 3 | US-10-104-966-13 | Sequence 13, Appl |
| 29 | 543.4 | 56.8 | 9416 | 3 | US-09-929-955-13 | Sequence 13, Appl |
| 30 | 543.4 | 56.8 | 9599 | 3 | US-09-014-416-2 | Sequence 2, Appl |
| 31 | 543.4 | 56.8 | 9646 | 3 | US-08-811-566-1 | Sequence 1, Appl |
| 32 | 543.4 | 56.8 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appl |
| 33 | 543.4 | 56.8 | 10803 | 3 | US-10-259-275-17 | Sequence 17, Appl |
| 34 | 541.8 | 56.6 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl |
| 35 | 541.8 | 56.6 | 12980 | 3 | US-08-811-566-5 | Sequence 5, Appl |
| 36 | 541.8 | 56.6 | 12980 | 3 | US-09-034-756-5 | Sequence 5, Appl |
| 37 | 539.2 | 56.3 | 1037 | 2 | US-08-462-195-1 | Sequence 1, Appl |
| 38 | 539.2 | 56.3 | 1037 | 2 | US-08-636-883-1 | Sequence 1, Appl |
| 39 | 539.2 | 56.3 | 1037 | 2 | US-09-127-829-1 | Sequence 1, Appl |
| 40 | 537.6 | 56.2 | 2116 | 3 | US-08-191-160-21 | Sequence 21, Appl |
| 41 | 537.6 | 56.2 | 9472 | 3 | US-08-150-204B-36 | Sequence 96, Appl |
| 42 | 536 | 56.0 | 2433 | 3 | US-08-612-973-49 | Sequence 49, Appl |
| 43 | 536 | 56.0 | 2433 | 3 | US-08-927-597-49 | Sequence 49, Appl |
| 44 | 536 | 56.0 | 2433 | 3 | US-08-928-757-49 | Sequence 49, Appl |
| 45 | 536 | 56.0 | 9595 | 3 | US-09-014-416-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-41
Sequence 41, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: BP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: BP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE FOR SEQ ID NO: 41:
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-41

Query Match 99.6%; Score 953; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 1.2e-289;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCAGATCTGTGTGAGTTACTTTGCCGCGCAG 120
DB 61 GACGTCAAGTTCCCGGCGCGCGCAGATCTGTGTGAGTTACTTTGCCGCGCAG 120
QY 121 GGCCTCTGTTGGGTGTGGCGGAGAGAAAGCCCGAAGGCTCCGAGCCTTAGAGGC 180
DB 121 GGCCTCTGTTGGGTGTGGCGGAGAGAAAGCCCGAAGGCTCCGAGCCTTAGAGGC 180
QY 181 AGGCGCAGCCCATACCAAGATACGCGCAGCGCAGCTGAGCTGGGTCAACCCGCG 240
DB 181 AGGCGCAGCCCATACCAAGATACGCGCAGCGCAGCTGAGCTGGGTCAACCCGCG 240
QY 241 TACCTTGGCCCTTTATGSCAACGAGGCTGCGGATGSCGCGATGGCTCTGTCCGC 300
DB 241 TACCTTGGCCCTTTATGSCAACGAGGCTGCGGATGSCGCGGATGGCTCTGTCCGC 300
QY 301 CGGCGGCTGCTGCTATTTGGGGGCGGCAAGACCCCGGAGAGTCCGCAACTGGGT 360
DB 301 CGGCGGCTGCTGCTATTTGGGGGCGGCAAGACCCCGGAGAGTCCGCAACTGGGT 360
QY 361 AAGGTATCATATCCCTTATGATNCGNCTAGCCGACCTCATGAGGTATCATCTCTGTCCTA 420
DB 361 AAGGTATCATATCCCTTATGATNCGNCTAGCCGACCTCATGAGGTATCATCTCTGTCCTA 420
QY 421 GGAAGGCGCGCTTGGCGCGCTTGGCGCTGCGCTGCGCATGCGTGAAGGCAATCGAGAC 480
DB 421 GGAAGGCGCGCTTGGCGCGCTTGGCGCTGCGCTGCGCATGCGTGAAGGCAATCGAGAC 480
QY 481 GGGGTCAATTAACGAAGAGGAATCTTCCGTGTGCTCTTTCTACTCTCTTATGCA 540
DB 481 GGGGTCAATTAACGAAGAGGAATCTTCCGTGTGCTCTTTCTACTCTCTTATGCA 540
QY 541 CTGTATCTGCTCACTACACAGCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 600
DB 541 CTGTATCTGCTCACTACACAGCTTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 600
QY 601 TACCATCTTAACCAATGACGCTGCAACACACATCGTTTGAAGCGAGACCATGATA 660
DB 601 TACCATCTTAACCAATGACGCTGCAACACACATCGTTTGAAGCGAGACCATGATA 660
QY 661 CTGATCTTCCAGGTTGTGTCCATGATCAAGGCGGGAATGAGTACATGTTGGCTC 720
DB 661 CTGATCTTCCAGGTTGTGTCCATGATCAAGGCGGGAATGAGTACATGTTGGCTC 720
QY 721 CCTGTCTCCCCCACTTAGCGCTGCCAATCATGCTCAATTCACGGGTTTCGCGCA 780
DB 721 CCTGTCTCCCCCACTTAGCGCTGCCAATCATGCTCAATTCACGGGTTTCGCGCA 780
QY 781 CAGGTAGACCTCTCGTGTGGGCGAGCGGCAATTTGTGGCCATGATCAAGAGACTC 840
DB 781 CAGGTAGACCTCTCGTGTGGGCGAGCGGCAATTTGTGGCCATGATCAAGAGACTC 840
QY 841 TGTGTGATGATTAATCTTGTGATGAGGACCTTTTACTTCAAGGCTTAAGTCAAGTCAAGTCA 900
DB 841 TGTGTGATGATTAATCTTGTGATGAGGACCTTTTACTTCAAGGCTTAAGTCAAGTCAAGTCA 900
QY 901 ACCCAGGATTTGTAATCTCTATTAACNCTGGCCACGCTCAAGGAGACAGAGATGGCA 957
DB 901 ACCCAGGATTTGTAATCTCTATTAACNCTGGCCACGCTCAAGGAGACAGAGATGGCA 957

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RESULT 2

US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MARTENS, GERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 43:

SEQUENCE CHARACTERISTICS:

LENGTH: 957 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-43

Query Match 67.1%; Score 642.4; DB 3; Length 957;
Best Local Similarity 78.8%; Pred. No. 8.4e-192;
Matches 754; Conservative 2; Mismatches 201; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
DB 1 ATGAGCACACTTCCAAAACCCCAAGAAAATACTACCTGCGCCATG 60
QY 61 GACGTCAAGTTCCCGGCGCGCGCAGATCTGTGTGAGTTACTTTGCCGCGCAG 120
DB 61 GACGTCAAGTTCCCGGCGCGCGCAGATCTGTGTGAGTTACTTTGCCGCGCAG 120
QY 121 GGCCTCTGTTGGGTGTGGCGGAGAGAAAGCCCTCGAAGCTCCAGCCTTAGAGGC 180
DB 121 GGCCTCTGTTGGGTGTGGCGGAGAGAAAGCCCTCGAAGCTCCAGCCTTAGAGGC 180
QY 181 AGGCGCAGCCCATACCAAGATACGCGCAGCGCAGCTGAGCTGGGTCAACCCGCG 240
DB 181 AGGCGCAGCCCATACCAAGATACGCGCAGCGCAGCTGAGCTGGGTCAACCCGCG 240
QY 241 TACCTTGGCCCTTTATGSCAACGAGGCTGCGGATGSCGCGATGGCTCTGTCCGC 300
DB 241 TACCTTGGCCCTTTATGSCAACGAGGCTGCGGATGSCGCGATGGCTCTGTCCGC 300

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QY 301 CGCGGCTCTGCTCTAATTTGAGGCCCCCAACGACCCCGCGGAGAGTCCCGCAACTTGGGT 360
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QY 361 AAGGTATGATACCTTTAATGAGCTAGCCGACTCATGGGGTCAATCCCTGTCTTA 420
Db 361 AAGGTATGATACCTTTAATGAGCTAGCCGACTCATGGGGTCAATCCCTGTCTTA 420
QY 421 GGAGGGCCGCTTGGCGGCGTGTGCGGCTGCGGATGCGCTTGAAGGCAATGAGAGAC 480
Db 421 GGCGGCTCCGTTGGAGAGCGTTCGCGAGGCGCTTGGCGATGGGGTCANAGCATGAGAGAC 480
QY 481 GGGGTCAATTAACGACAGGGAATCTTCTGTGTGCTCTTTCTATCTTCTCTTGA 540
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Db 541 CTGTCTCTGCTGCTTACACAGCCTCAGCGGCGGATTAACCAAGTCTGGGCTG 600
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Db 601 TACCATCTTCAACGACGCTGCCCCACAGACATGTTTATGAGGAGACATGATTA 660
QY 661 CTGCATCTTCCAGGTGTGTCTCCATGTATCAAGCGGGGAATGATCAGCATGTGGCTC 720
Db 661 TTGCATCTTCTGGGTGTGTATCTTGTGTGAAGTGAATCAATCCGGTGTGGGCTG 720
QY 721 CTTGTCTTCCCTCACCTTAAGCCGCTCCCACTCATCACTGCTCAATCCAGGGTTTCCGCGA 780
Db 721 CAGGCGCTTCCGACCCCTGCGGACAGTGCACAGCGCTTACGCGAGTCAACGCGGTTCCGCGAA 780
QY 781 CAGGTAGACCTTCCGCTTGTGGGGACAGGCAATTTTGTGCGGCAATGATCGAGACATC 840
Db 781 CAGGTAGACATCATGATGTGGGCGCTGCGCGCTTGTGTGAGTATGATGTGGGAGACTG 840
QY 841 TGTGTAGACATAATCTTGTGTAGGCAAGCTTTTATCTTTCAGGCTTAAGTACATCAAGT 900
Db 841 TGGGGGGGCTTTTCTGTTGTGTGAGCAAGCTTTTCAAGCTTCAAGGCTGAGGCTGGAGATG 900
QY 901 ACCGAGATTGTATCTGCTCTTATTAACNCTGGGCCACTCAAGGACACAGAGATGCA 957
Db 901 GTCCAGAGATGTATCTGCTCTTATTAACNCTGGGCCACTCAAGGACACAGAGATGCA 957

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RESULT 3

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US-08-836-075A-47
; Sequence 47, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTIONS: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155

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; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA: EP 95870076.7
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-47

Query Match 65.4%; Score 625.4; DB 3; Length 957;
Best Local Similarity 78.0%; Pred. No. 1,9e-186;
Matches 746; Conservative 1; Mismatches 209; Indels 0; Gaps 0;

QY 1 ATGAGACACTTCCAAACCCCAAGAAAGAAATCTAACCGTGCCCTATG 60
Db 1 ATGAGACACTTCCAAACCCCAAGAAAGAAAGAAATCTAACCGTGCCCTATG 60
QY 61 GAGTCAGATTCCCGGCGGCGGCGAGATGTTGTGATTTACTTGTTCGCGCAG 120
Db 61 GAGTCAGATTCCCGGCGGCGGCGAGATGTTGTGATTTACTTGTTCGCGCAG 120
QY 121 GGCCTGCTTGGGTGTGCGCGACGAGAAAGACTCCGAAAGTCCAGCTAGAGG 180
Db 121 GGCCTGCTTGGGTGTGCGCGACGAGAAAGACTCCGAAAGTCCAGCTAGAGG 180
QY 181 AGGCGCACCCCAATCAAGAGTACGCGCAGCGAGAGCGGTGAGTCAACCGG 240
Db 181 AGGCGCACCCCAATCAAGAGTACGCGCAGCGAGAGCGGTGAGTCAACCGG 240
QY 241 TACCTTGGCCCTTTATGGAACGAGGCTGCGATGCGGAGTGGCTCTGTCCTCC 300
Db 241 TACCTTGGCCCTTTATGGAACGAGGCTGCGATGCGGAGTGGCTCTGTCCTCC 300
QY 301 CGCGGCTCTGCTCTAATTTGAGGCCCCCAACGACCCCGCGGAGAGTCCCGCA 360
Db 301 CGCGGCTCTGCTCTAATTTGAGGCCCCCAACGACCCCGCGGAGAGTCCCGCA 360
QY 361 AAGGTATGATACCTTTAATGAGCTAGCCGACTCATGGGGTCAATCCCTGTCTTA 420
Db 361 AAGGTATGATACCTTTAATGAGCTAGCCGACTCATGGGGTCAATCCCTGTCTTA 420
QY 421 GGAGGGCCGCTTGGCGGCGTGTGCGGCTGCGGATGCGCTTGAAGGCAATGAGAGAC 480
Db 421 GGCGGCTCCGTTGGAGAGCGTTCGCGAGGCGCTTGGCGATGGGGTCANAGCATGAGAGAC 480
QY 481 GGGGTCAATTAACGACAGGGAATCTTCTGTGTGCTCTTTCTATCTTCTCTTGA 540
Db 481 GGAGTAAATTAACGACAGGGAATCTTCTGTGTGCTCTTTCTATCTTCTCTTGA 540
QY 541 CTGTATCTGCTGCTCACTACACGAGCTCAGCAATTAAGTCAAGAACGCTCTGGATC 600
Db 541 CTGTCTCTGCTGCTTACACAGCCTCAGCGGCGGATTAACCAAGTCTGGGCTG 600
QY 601 TACCATCTTCAATGACGCTGTGGAACAGACATGTTTTTGAAGGAGACCATGATA 660
Db 601 TACCATCTTCAACGACGCTGCCCCACAGACATGTTTATGAGGAGACATGATTA 660
QY 661 CTGCATCTTCCAGGTGTGTCTCCATGTATCAAGCGGGGAATGATCAGATGTGGCTC 720
Db 661 CTGCATCTTCCAGGTGTGTCTCCATGTATCAAGCGGGGAATGATCAGATGTGGCTC 720

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QY 721 CTGTCTCCCCCACTTAGCGGTCCCACTCATCATGCAATCCAGGGTTTCGCGA 780
 Db 721 TCGGCTCCCCGACATGCGGCGTGCACAAATGCGGTGTCATCAGGGTGTCCGAG 780
 QY 781 CACGTAGACCTCTCTGTTGGGCGACGCGCATTTTGTTCGCGCATGATCATGAGACTTC 840
 Db 781 CACGTGACCTCTTGGGTGGTGGCTGCTGCTCTGCTCCCATGTACGTGGGCGACTTA 840
 QY 841 TGTGTAGCATTAATCTTGTGAGGCGACCTTTTATCTTACAGGCGCTAGTACCATCAGATT 900
 Db 841 TGGGTGGGCTCTTCTGTTGGGCACTTGTTCAGTTCAAGCCAGAGATGTAGATC 900
 QY 901 ACCGAGATTGTAATCTGCTATTAACNCTGCGCAGCTCAAGGACACAGGATGAC 956
 Db 901 GCCAGGACTGCAACTGTTCTCATCTATGACGCGCACTCATCTGGGACCGGATGCG 956

RESULT 4

US-08-324-977-9

Sequence 9, Application US/08324977

Patent No. 5747339

GENERAL INFORMATION:

APPLICANT: OKAYAMA, Hiroko

APPLICANT: FUKU, Isao

APPLICANT: MORI, Chisato

APPLICANT: TAKAMIZAWA, Akahisa

APPLICANT: YOSHIDA, Iwao

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &

STREET: 1725 K St. N.W. Suite 1000

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20006

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 in. 1.44mb

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/324,977

FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-167466

FILING DATE: 25-JUN-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-230921

FILING DATE: 31-AUG-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-305605

FILING DATE: 09-NOV-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/099,706

FILING DATE: 30-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/769,996

FILING DATE: 02-OCT-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/635,451

FILING DATE: 28-DEC-1990

ATTORNEY/AGENT INFORMATION:

NAME: Stevens-Smith, Theresa M.

REGISTRATION NUMBER: 36,281

REFERENCE/DOCKET NUMBER: 900703D

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2930

TELEFAX: (202) 887-0357

TELEX: 440142

; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 ; OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-324-977-9

Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2.9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAACCCCAAGAAACCAAAATTAATACGTCGCCCTATG 60
 Db 1 ATGAGCACAATCTTAAACCTCAAGAAACCAACGTAACCAACCGCGCCACAG 60
 QY 61 GACGTCAAGTCCCGGCGGCGGCGAGATCGTTGTGAGATTACTTGTTCGCGCAGG 120
 Db 61 GACGTCAAGTCCCGGCGGCGGCGAGATCGTTGTGAGATTACTTGTTCGCGCAGG 120
 QY 121 GGCCTCTGTTGGGTGTGCGCGGACGAGAAAGCTCCGAAAGTCCAGCTTGAAGGC 180
 Db 121 GGCCTCTGTTGGGTGTGCGCGGACGAGAAAGCTCCGAAAGTCCAGCTTGAAGGC 180
 QY 181 AGCGCGCAAGCCATACCAAGGTAAGCGCGAGCGAGCGTACGTTGGGTGTAACCGCGG 240
 Db 181 AGCGCGCAAGCCATACCAAGGTAAGCGCGAGCGAGCGTACGTTGGGTGTAACCGCGG 240
 QY 241 TACCTTTGGCCCTTTATGGAAGGCGGCGGATGAGCTCTGTCCTCC 300
 Db 241 TACCTTTGGCCCTTTATGGAAGGCGGCGGATGAGCTCTGTCCTCC 300
 QY 301 CGCGGCTCTGCTCTAATTTGGGGCCCAAGACATCCCGCGAAGGCTCCGCAATTGGGTT 360
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 QY 361 AAGGTATGATACCTTATCATTCGAGCGAGCGAGCTGATGAGGAGTATTCCTGCTCA 420
 Db 361 AAGGTATGATACCTTATCATTCGAGCGAGCGAGCTGATGAGGAGTATTCCTGCTCA 420
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 Db 421 GGAAGGCGGCTTTGCGGCGGCTGCGGCTGCGGCATGCGGTTAGGCAATCGAGGAC 480
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 Db 601 TACCATCTTAACCAATAGTGTGGAACAACAGCATGCTTTTGGAGCGAGACATGATA 660
 QY 661 ATGCAATATCTCTGGGTGGTGGCTGCTGTTGGGAAAGGCAACTCTCCGCTGCTGGGTA 720
 Db 661 ATGCAATATCTCTGGGTGGTGGCTGCTGTTGGGAAAGGCAACTCTCCGCTGCTGGGTA 720
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 Db 721 CTGTCTCCCCCACTTAGCGGTCCCACTCATCATGCAATCCAGGGTTTCGCGA 780

QY 781 CAGGTAGACCTCTCTGTTGGGCGAGCGGCAATTTTGTTCGGCCATGTACATCGAGACCTTC 840
 Db 781 CAGGTAGACCTCTCTGTTGGGCGAGCGGCAATTTTGTTCGGCCATGTACATCGAGACCTTC 840
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 QY 901 ACCGAGATTGTAACTGCTCTATNAACNCTGGCCAGCTCAAGGACACAGAGATGGC 956
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RESULT 5

US-08-384-616-9
 ; Sequence 9, Application US/08384616
 ; Patent No. 5847101
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORI, Chisako
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/384,616
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELELEX: 440142
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:

NAME/KEY: misc_feature
 LOCATION: 1..1167
 OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 OTHER INFORMATION: SEQ ID NO: 1"
 NAME/KEY: CDS
 LOCATION: 1..1167
 US-08-384-616-9
 Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2,9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
 QY 1 ATGAGCACACTTCACAAACCCCAAGAAAAACCAAGAAATATCTAACCGTCGCTTATG 60
 Db 1 ATGAGCACAAATCTTAACCTCAABAAAAACCAACGTAACCAACCGCGCCACAG 60
 QY 61 GACGTCAAGTTCGCGGCGCGGCGGCGAGATGTTGTGTGAGATTACTTGTTCGCGCAG 120
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 QY 181 AGGCGCCAGCCCATACCAAGGTAAGCGACGACGAGCGGTAGCTGGGGTCAACCGGC 240
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 QY 241 TACCTTGGCCCCCTTATATGCAAGGCTGCGATGAGGCGGAGATGCTCTGTCCCC 300
 Db 241 TACCTTGGCTCTCTATGGAATGAGGCTTATAGGATGAGGATGCTCTGTCAACC 300
 QY 301 CGGGGTCTGCTCTAATTTGGGGCCCCCAACGACCCCCCGGAAGTCCGCAACTGGGT 360
 Db 301 CGGGGTCTGCTCTAATTTGGGGCCCCCAACGACCCCCCGGAAGTCCGCAACTGGGT 360
 QY 361 AAGGTATGATATACCTTATATGCGATGAGCGACCTCATGAGGATGATCCCTGCTTA 420
 Db 361 AAGGTATGATATACCTTATATGCGATGAGCGACCTCATGAGGATGATCCCTGCTTA 420
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 Db 421 GGAAGGCGCGCTTGGCGGCGTGGGCTGCGCGCATGAGCGTATAGGCAATGAGAGC 480
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 QY 601 TACCATCTTACCAATGACTGCTCGAACAACAGCATGTTTTTGAAGCGGAGCAATGATA 660
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 QY 721 CCGTCTCCCGCACTTACGCGGTCCCAACTCATGATGATCAAGGATCAAGGATTTGCGCA 780
 Db 721 CCGTCTCCCGCACTTACGCGGTCCCAACTCATGATGATCAAGGATTTGCGCA 780
 QY 781 CAGGTAGACCTCTCTGTTGGGCGAGCGGCAATTTTGTTCGGCCATGTACATCGAGACCTTC 840
 Db 781 CAGGTAGACCTCTCTGTTGGGCGAGCGGCAATTTTGTTCGGCCATGTACATCGAGACCTTC 840
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 Db 841 TGTGTGACATTAATCTTGTGTAGGCGACCTTTTATCTTCAGGCTTAAGTACATCAGGTT 900

Qy 901 ACCGAGATTGTAAGTCTCTATTAACNCTGACCGTCAAGGACACAGATGCG 956
 Db 901 TTACAGACTGTAAGTCTCTCAATTATCCGGCATGTGTGGGTACCGTATGCG 956

RESULT 6

US-08-904-686A-9
 ; Sequence 9, Application US/08904686A
 ; Patent No. 5998130
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
 ; ADDRESSEE: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/904,686A
 ; FILING DATE: 01-AUG-1997
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Mclelland, Le-Nhung
 ; REGISTRATION NUMBER: 31,541
 ; REFERENCE/DOCKET NUMBER: 900703G
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of

OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-904-686A-9

Query Match 57.3%; Score 548.8; DB 2; Length 1167;
 Best Local Similarity 73.2%; Pred. No. 2,9e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

Qy 1 ATGAGCAACTTCCAAACCCCAAGAAAACCAAGAAATCTAACCTGCGCCCTAG 60
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 Qy 61 GAGTCGAAGTCCCGGGCGGCGGCGAGATGTTGGAGATTACTTGTGGCGGAG 120
 Db 61 GAGTCGAAGTCCCGGGCGGCGGCGAGATGTTGGAGATTACTTGTGGCGGAG 120
 Qy 121 GGGCTCGTTGGGTGCGCGAGAGAGAAAGCTCCGACCTGAGAGGC 180
 Db 121 GGGCTCGTTGGGTGCGCGAGAGAGAAAGCTCCGACCTGAGAGGC 180
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 Db 181 AGGCGCCAGCCCTATACCAAGGTAGCGCCAGCGCCGATGCTGGGGTCAACCCG 240
 Qy 241 TACCTTGGCCCCCTTATGGAACAGAGGCTGGGATGGGCGGAGTCTGCTCCGCC 300
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 Qy 301 CGGAGGCTCTGCTTAATTGGGGCCCAAGACCCCGGCGAAGGTCCGCAACTTGGGT 360
 Db 301 CGGAGGCTCTGCTTAATTGGGGCCCAAGACCCCGGCGAAGGTCCGCAACTTGGGT 360
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RESULT 8
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-08-324-977-3

Query Match 57.3%; Score 548.8; DB 2; Length 1499;
Best Local Similarity 73.2%; Pred. No. 3.3e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
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QY 61 GAGTCAGATTCCTCGGCGGCGGCGATCGTTGTGAGTTACTTGTTCGCGCAG 120
DB 393 GAGTCAGATTCCTCGGCGGCGGCGATCGTTGTGAGTTACTTGTTCGCGCAG 452
QY 121 GCGCCTCGTTGGGTGCGCGGAGAGAAAGCTCCGAACGTTCCAGCTAGAGC 180
DB 453 GCGCCAGGTTGGGTGCGCGGAGAGAAAGCTCCGAACGTTCCAGCTAGAGC 512
QY 181 AGGCGCAGCCCTATCAAAAGTAAGCCGACGCGACAGGCGGTAGCTGGGTCAA 240
DB 513 AGGCGCAGCCCTATCAAAAGTAAGCCGACGCGACGCGGTAGCTGGGTCAA 572
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QY 361 AAGTATGATATACCTTATATGAGTACGCTAGCTCATGGGATCATCTCTGCT 420
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DB 813 GGGGTCAATTACGCAACAGGAAATCTTCTGCTCTTCTTCTTCTTCTTGA 872
QY 541 CTGTATCTGCTCTCACTACACGAGCTCAGCAATTCAGTCAAGAACCTCT 600
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QY 841 TGTGTAGATAATCTTGTGAGGCGAGCTTTTACTTCAAGGCTTACATCA 900
DB 1173 TGTGTAGATAATCTTGTGAGGCGAGCTTTTACTTCAAGGCTTACATCA 1232
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RESULT 9
US-08-384-616-3
Sequence 3, Application US/08384616
Patent No. 5847101

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1 GENERAL INFORMATION:
2 APPLICANT: OKAYAMA, Hiroto
3 APPLICANT: FUKE, Isao
4 APPLICANT: MORI, Chisato
5 APPLICANT: TAKAMIZAWA, Akahisa
6 APPLICANT: YOSHIDA, Iwao
7 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
8 NUMBER OF SEQUENCES: 50
9 CORRESPONDENCE ADDRESS:
10 ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
11 ADDRESSEE: Naughton
12 STREET: 1725 K St. N.W. Suite 1000
13 CITY: Washington
14 STATE: D.C.
15 COUNTRY: U.S.A.
16 ZIP: 20006
17 COMPUTER READABLE FORM:
18 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
19 COMPUTER: IBM PC compatible
20 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
21 SOFTWARE: ASCII
22 CURRENT APPLICATION DATA:
23 APPLICATION NUMBER: US/08/384,616
24 FILING DATE:
25 CLASSIFICATION: 424
26 PRIOR APPLICATION DATA:
27 APPLICATION NUMBER: US 07/769,996
28 FILING DATE: 02-OCT-1991
29 APPLICATION NUMBER: JP 2-167466
30 FILING DATE: 25-JUN-1990
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: JP 2-230921
33 FILING DATE: 31-AUG-1990
34 PRIOR APPLICATION DATA:
35 APPLICATION NUMBER: JP 2-305605
36 FILING DATE: 09-NOV-1990
37 PRIOR APPLICATION DATA:
38 APPLICATION NUMBER: US 07/635,451
39 FILING DATE: 28-DEC-1990
40 ATTORNEY/AGENT INFORMATION:
41 NAME: Stevens-Smith, Theresa M.
42 REGISTRATION NUMBER: 36,281
43 REFERENCE/DOCKET NUMBER: 900703B
44 TELECOMMUNICATION INFORMATION:
45 TELEPHONE: (202) 659-2930
46 TELEFAX: (202) 887-0357
47 TELEX: 440142
48 INFORMATION FOR SEQ ID NO: 3:
49 SEQUENCE CHARACTERISTICS:
50 LENGTH: 1499 base pairs
51 TYPE: nucleic acid
52 STRANDEDNESS: single
53 TOPOLOGY: linear
54 MOLECULE TYPE: cDNA from genomic RNA
55 FEATURE:
56 NAME/KEY: CDS
57 LOCATION: 333..1499
58 FEATURE:
59 NAME/KEY: misc feature
60 LOCATION: 1..1499
61 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
62 ID NO: 1"
63 US-08-384-616-3

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| | Query Match | 57.3% | Score 548.8 | DB 2: | Length 1499; |
| | Best Local Similarity | 73.2%; | Pred. No. 3.3e-162; | | |
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| OY | 301 | CGGAGGTCTGCTCTAATTTGGGGCCCGCAACGACCCCGGCGCAAGTCCCGCACTTGGAGT | 360 |
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| Db | 933 | TATCATGTCAACGAACGACTGCTCCACGCAAGCATTTGTATGAGGACGCGCATTTGATC | 992 |
| OY | 661 | CTGCATCTTCCAGGTTGGTCCCATATGATCAAGGCGGGGAATGAGTCAACATTTGGCTC | 720 |
| Db | 993 | ATGATATCTCTGGGTGCGTGCCTGTGCTTGGAAAGCAATCTTCCGCTGCTGGGATA | 1052 |
| OY | 721 | CCTGTCTCCCACTTAGCCGTCGCCCAACTCATCAGTGGCCATCCAGGGTTTGGCGGA | 780 |
| Db | 1053 | GCGCTTACTCCCAAGCTTCGACAGCCAGGAAGTCACATCCCAACACAGACGATACGAGC | 1112 |
| OY | 781 | CACGTAGACCTCTCGTTGGGGGACGCGGCAATTTGTTGGGCATGTACATCGAGACCTC | 840 |
| Db | 1113 | CAGCTCATCTGCTGTTGGGGGGGCTGCTTCTGTTCCGGTATGTAGTGGGGGACCTC | 1172 |
| OY | 841 | TGTGGTAGCAATCTTGGTAGGGCACTTTTACTTTCAAGGCTTAAGTACATCAGGTT | 900 |
| Db | 1173 | TGCGGATCTGTTTCTCGTCTCAAGCTGTACCTTTCGCTCCCGGCAATGTAGCA | 1232 |
| OY | 901 | ACCGAGATGTAACTGCTCTATTAACATCGGCGACGTCACGGGACAGAGATGGC | 956 |
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RESULT 10 686A-3
US-08-904-686A-3
; Sequence 3, Application US/08904686A
; Patent No. 5998130
;
; GENERAL INFORMATION:
;
; APPLICANT: OKAYAMA, Hiroto
;
; APPLICANT: FUKU, Isao
;
; APPLICANT: MORI, Chisato
;
; APPLICANT: TAKAMIZAWA, Akahisa
;
; APPLICANT: YOSHIDA, Iwao
;
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
;

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; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
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; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
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; US-08-904-686A-3
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Best Local Similarity 73.2%; Pred. No. 3,3e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;
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DB 1173 TGTGTAGCATATCTTGGTGAAGGAGGCTTTTACTTTCAAGGCTTAAGTACATCAGGTT 956
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QY 901 ACCGAGATTTGATGCTCTATTAACNCTGCGCAGCTCAAGGAGACAGATGAC 956
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RESULT 11
; US-09-315-850-3
; Sequence 3, Application US/09315850
; Patent No. 6217872
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; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
;
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ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315, 850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904, 686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US/08/324, 977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099, 706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McIeland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
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US-09-315-850-3
Query Match 57.3%; Score 548.8; DB 3; Length 1499;
Best Local Similarity 73.2%; Pred. No. 3.3e-167;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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RESULT 12
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Sequence 11, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chiaki
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
ADDRESSEE: Naughton

```

STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-324-977-11

Query Match 57.3%; Score 548.8; DB 2; Length 6039;
Best Local Similarity 73.2%; Pred. No. 7,1e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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RESULT 13
US-08-384-616-11
Sequence 11, Application US/08384616
Patent No. 5847101
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hatori, McEland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0357
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-384-616-11

Query Match 57.3%; Score 548.8; DB 2; Length 6039;
Best Local Similarity 73.2%; Pred. No. 7,1e-162;
Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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DB 661 ATGCATATCTCTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
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DB 721 CGGCTCACTCCAGGCTCGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
QY 781 CAGGTAGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
DB 781 CAGGTAGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
QY 841 TGTGTAGCATTAATCTTGTGTAAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 900
DB 841 TGCAGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
QY 901 ACCGAGATGTAATCTGCTATTAACGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 956
DB 901 TTACAGACCTGTAATCTGCTATTAACGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGG 956

RESULT 14
US-08-904-686A-11
Sequence 11, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroko
APPLICANT: FUKU, Isao
APPLICANT: MORI, Chiaki
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: McLeiland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 847-0357
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 6039 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA from genomic RNA
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..6039
 OTHER INFORMATION: /note: "sequence = 333 - 6371 of
 OTHER INFORMATION: SEQ ID NO: 1"
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..6039
 US-08-904-686A-11

Query Match 57.3%; Score 548.8; DB 2; Length 6039;
 Best Local Similarity 73.2%; Pred. No. 7.1e-162;
 Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

QY 1 ATGAGCACAATTCCAAAACCCCAAGAAACCAAAAGAAATATTAACCGTCCCTATG 60
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 DB 61 GACGTCAAGTCCCGGCGCGCGCGCAAGATCGTTGTGAGTTACTTGTTCGCGCAGG 120
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 DB 181 AGGCGCAGAGCCCATACCAAGGTAGCGAGCGAGCGCGCGTATGCTGGGGTCAACCGGCG 240
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 DB 241 TACCTTGGCTCTCTATGAGCAATAGAGGCTTAGGGTGGGAGATAGGCTCTCTGTCACCC 300
 QY 301 CGCGGCTCTCTCTATGAGGAG 360
 DB 301 CGCGGCTCTCTCTATGAGGAG 360

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 DB 601 TACCATCTTACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
 QY 661 CTGATCTTCCAGGTTGTGCTCCATGATGATGATGATGATGATGATGATGATGATGATGATG 720
 DB 661 CTGATCTTCCAGGTTGTGCTCCATGATGATGATGATGATGATGATGATGATGATGATGATG 720
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 DB 721 CCGTCTCCCGCAGCTTACCGGCTCCCGCAGCTTACCGGCTCCCGCAGCTTACCGGCTCCCG 780
 QY 781 CAGGTAGACCTCTCTGTTGGGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
 DB 781 CAGGTAGACCTCTCTGTTGGGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
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 DB 841 TGTGTAGCATATCTTGT 900
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RESULT 15
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 ; Sequence 11, Application US/09315850
 ; Patent No. 6217872
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, McLeiland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St., N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/315,850
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/904,686
 ; FILING DATE: 01-AUG-1997

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APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
PILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
PILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
PILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
PILING DATE: 30-JUL-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
PILING DATE: 02-OCT-1991
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
PILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McIeland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 9007036
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-09-315-850-11

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Query Match 57.3%; Score 548.8; DB 3; Length 6039;

Best Local Similarity 73.2%; Pred. No. 7,1e-162;

Matches 700; Conservative 0; Mismatches 256; Indels 0; Gaps 0;

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DB 361 AAGGTCATGATACCTTAATGCGAGCTAGCGGAGCTCATGGGAGTACATCCCTGTCT 420
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DB 661 CTGCATCTTCCAGGTTGTGTCCTCATGTATCAAGGCGGAGATGATCAGCATGTTGGCTC 720
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OY 901 ACCGAGATTGTAACTGCTCTATTAACNCTGGCCAGCTCAAGGAGCAAGAGATGC 956
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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 231.737 Seconds
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7340.750 Million cell updates/sec

Title: US-08-836-075B-43

Perfect score: 957

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 3 | 642.4 | 67.1 | 957 | 3 | US-08-836-075A-41 |
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| 5 | 565.4 | 59.1 | 1167 | 2 | US-08-384-616-9 |
| 6 | 565.4 | 59.1 | 1167 | 2 | US-08-904-686A-9 |
| 7 | 565.4 | 59.1 | 1167 | 2 | US-09-315-850-9 |
| 8 | 565.4 | 59.1 | 1499 | 2 | US-08-324-977-3 |
| 9 | 565.4 | 59.1 | 1499 | 2 | US-08-384-616-3 |
| 10 | 565.4 | 59.1 | 1499 | 2 | US-08-904-686A-3 |
| 11 | 565.4 | 59.1 | 1499 | 2 | US-09-315-850-3 |
| 12 | 565.4 | 59.1 | 6039 | 2 | US-08-324-977-11 |
| 13 | 565.4 | 59.1 | 6039 | 2 | US-08-384-616-11 |
| 14 | 565.4 | 59.1 | 6039 | 2 | US-08-904-686A-11 |
| 15 | 565.4 | 59.1 | 6039 | 2 | US-09-315-850-11 |
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| 19 | 565.4 | 59.1 | 9030 | 2 | US-09-315-850-13 |
| 20 | 565.4 | 59.1 | 9416 | 2 | US-08-324-977-1 |
| 21 | 565.4 | 59.1 | 9416 | 2 | US-08-384-616-1 |
| 22 | 565.4 | 59.1 | 9416 | 2 | US-08-904-686A-1 |
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| 26 | 563.8 | 58.9 | 2433 | 3 | US-08-927-597-49 | Sequence 49, Appl |
| 27 | 563.8 | 58.9 | 2433 | 3 | US-08-928-757-49 | Sequence 49, Appl |
| 28 | 555.4 | 58.0 | 1037 | 2 | US-08-462-195-1 | Sequence 1, Appl |
| 29 | 555.4 | 58.0 | 1037 | 2 | US-08-636-883-1 | Sequence 1, Appl |
| 30 | 555.4 | 58.0 | 1037 | 3 | US-09-127-829-1 | Sequence 1, Appl |
| 31 | 554.2 | 57.9 | 1539 | 2 | US-08-470-426B-17 | Sequence 17, Appl |
| 32 | 554.2 | 57.9 | 1863 | 2 | US-08-470-426B-14 | Sequence 14, Appl |
| 33 | 554.2 | 57.9 | 9412 | 3 | US-08-150-204E-96 | Sequence 96, Appl |
| 34 | 553.8 | 57.9 | 2116 | 3 | US-08-191-160-A-21 | Sequence 21, Appl |
| 35 | 549.4 | 57.4 | 1037 | 2 | US-08-462-195-3 | Sequence 3, Appl |
| 36 | 549.4 | 57.4 | 1037 | 2 | US-08-636-883-3 | Sequence 3, Appl |
| 37 | 549.4 | 57.4 | 1037 | 3 | US-09-127-829-3 | Sequence 3, Appl |
| 38 | 549.4 | 57.4 | 9595 | 3 | US-09-014-416-4 | Sequence 4, Appl |
| 39 | 549.4 | 57.4 | 9599 | 3 | US-09-014-416-6 | Sequence 6, Appl |
| 40 | 547.8 | 57.2 | 11076 | 3 | US-09-539-601-1 | Sequence 1, Appl |
| 41 | 547.8 | 57.2 | 11076 | 3 | US-09-539-601-19 | Sequence 19, Appl |
| 42 | 547.8 | 57.2 | 11076 | 3 | US-09-539-601-25 | Sequence 25, Appl |
| 43 | 547.8 | 57.2 | 11076 | 3 | US-09-539-601-31 | Sequence 31, Appl |
| 44 | 541.4 | 56.6 | 9275 | 3 | US-10-259-275-39 | Sequence 39, Appl |
| 45 | 540.4 | 56.5 | 957 | 3 | US-08-836-075A-11 | Sequence 11, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-43

Query Match 98.9%; Score 946.8; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 1,1e-272;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 181 AGGCGCCAAACCAATACCAAGTGGCGCCACCAACGCGCCGTAACCTGGGCGCCAGCGCGG 240
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QY 301 CGCGGCTTCCGCGCAATTTGGGGCCCAACGACCCCGCGCGAGAGTCCCGCAACTGGGT 360
DB 301 CGCGGCTTCCGCGCAATTTGGGGCCCAACGACCCCGCGCGAGAGTCCCGCAACTGGGT 360
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DB 901 GTCCAGAGTGAATCTGTTCCATCTACACAGGGCATATCATCGAGACCGGAATGSCA 957
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RESULT 2

US-08-836-075A-47
Sequence 47, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 47:

SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-47
Query Match 71.6%; Score 685.2; DB 3; Length 957;
Best Local Similarity 81.6%; Pred. No. 1,7e-194;
Matches 780; Conservative 3; Mismatches 173; Indels 0; Gaps 0;

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QY 1 ATGAGCAGACTTCCAAAACCCCAAGAAAACCAAAAGAAACACACCATCCGCGCCACAG 60
DB 1 ATGAGCAGACTTCCAAAACCCCAAGAAAACCAAAAGAAACACACCATCCGCGCCACAG 60
QY 61 GACGTCAGATTCCCGGGTGGCGGCCAGATCGTTGGTGAAGTCTACTTCGCGCGCAGG 120
DB 61 GACGTCAGATTCCCGGGTGGCGGCCAGATCGTTGGTGAAGTCTACTTCGCGCGCAGG 120
QY 121 GGGCGGCGCTTGGGTGGTGGCGCGCGAGAAAAGATTCTGAAACGGTCCCAAGCAGAGT 180
DB 121 GGGCGGCGCTTGGGTGGTGGCGCGCGAGAAAAGATTCTGAAACGGTCCCAAGCAGAGT 180
QY 181 AGGCGCCAAACCAATACCAAGTGGCGCCACCAACGCGCCGTAACCTGGGCGCCAGCGCGG 240
DB 181 AGGCGCCAAACCAATACCAAGTGGCGCCACCAACGCGCCGTAACCTGGGCGCCAGCGG 240
QY 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCGAGGCTGCTCTGTCCTCC 300
DB 241 TACCCCTGGCTCTTTATGAAATAGAGGCTGTGTGGTGGCGAGGCTGCTCTGTCCTCC 300
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QY 301 CGCGGCTCTCGCCCAATTTGGGGCCCAACGACCCCGGCGAGGATCCCGCACTTGGGT 360
Db 301 CGTGGCTCTCGCCCGGAGCTGGGGGNCCTAATACCCCGGAGGAGGTCCCGCACTTGGGT 360
QY 361 AAAGTCATGACACCCCTTACTTGGGCTTCCCGCACTCATAGGGATATCCCTGTGTA 420
Db 361 AAAGTCATGACACCCCTTACTTGGGCTTCCCGCACTCATAGGGATATCCCTGTGTA 420
QY 421 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
Db 421 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
QY 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
Db 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
QY 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
Db 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
QY 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
Db 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
QY 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
Db 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
QY 601 TACCATCTACCAACGAGCTGCGGCAACGAGCACTGCTTATGAGGGGAGACATGATT 660
Db 601 TACCATCTACCAACGAGCTGCGGCAACGAGCACTGCTTATGAGGGGAGACATGATT 660
QY 661 TTGCACTTGTCTGGGTGTACTTGTGTGAAGTGAATCAATCCCGTGTGGGTG 720
Db 661 TTGCACTTGTCTGGGTGTACTTGTGTGAAGTGAATCAATCCCGTGTGGGTG 720
QY 721 CAGGCTTCCCGGAGCTTGGGAGTGGCGGAGTCCGCTTACGCCAGTCCCGGTTCCGAAA 780
Db 721 CAGGCTTCCCGGAGCTTGGGAGTGGCGGAGTCCGCTTACGCCAGTCCCGGTTCCGAAA 780
QY 781 CATGTGACATCATGTGGGGGCGTGGCGGCTTGTTCAGCTATGTATGAGGGGAGCTG 840
Db 781 CATGTGACATCATGTGGGGGCGTGGCGGCTTGTTCAGCTATGTATGAGGGGAGCTG 840
QY 841 TGCGGGGCGCTTCTCTGTGTGACAGCTCTTCAAGCTCAAGGCTCGAGTCACTAGATT 900
Db 841 TGCGGGGCGCTTCTCTGTGTGACAGCTCTTCAAGCTCAAGGCTCGAGTCACTAGATT 900
QY 901 GTCCAGAGTGTAACTGTTCCATTTACACAGGGCATTACTGAGCAACCGAATGGC 956
Db 901 GTCCAGAGTGTAACTGTTCCATTTACACAGGGCATTACTGAGCAACCGAATGGC 956

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RESULT 3

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US-08-836-075A-41
; Sequence 41, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSER: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836.075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155

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; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 28,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-41

Query Match 67.1%; Score 642.4; DB 3; Length 957;
Best Local Similarity 78.8%; Pred. No. 1.1e-181;
Matches 754; Conservative 2; Mismatches 201; Indels 0; Gaps 0;

QY 1 ATGAGCACTTCCCAAAACCCCAAGAAAACCAAAAGCAACCAATCCGCGCCGACAG 60
Db 1 ATGAGCACTTCCCAAAACCCCAAGAAAACCAAAAGCAACCAATCCGCGCCGACAG 60
QY 61 GAGTCAGTATCCCGGGTGGCGGCGAGATGTTGTGAGTCTTACTTGTGCGCGCAGG 120
Db 61 GAGTCAGTATCCCGGGTGGCGGCGAGATGTTGTGAGTCTTACTTGTGCGCGCAGG 120
QY 121 GGGCGCGCTGGGTGTGCGCGAGAGAAAGTCTTGAACGTCGCCAGCAGG 180
Db 121 GGGCGCGCTGGGTGTGCGCGAGAGAAAGTCTTGAACGTCGCCAGCAGG 180
QY 181 AGCGGCAACCAATACCAAGTCCGCAACCAAGCGGCGCTACCTGGCGCCAGCGGG 240
Db 181 AGCGGCAACCAATACCAAGTCCGCAACCAAGCGGCGCTACCTGGCGCCAGCGGG 240
QY 241 TACCCCTGGGCTCTTATGGAATGAGGGCTGTGTGGCAGGCTGCTGCTGCCCC 300
Db 241 TACCCCTGGGCTCTTATGGAATGAGGGCTGTGTGGCAGGCTGCTGCTGCCCC 300
QY 301 CGCGGCTCTGCGCAATTTGGGGCCCAACGACCCCGCGAGGTCCTGCAACTTGGGT 360
Db 301 CGCGGCTCTGCGCAATTTGGGGCCCAACGACCCCGCGAGGTCCTGCAACTTGGGT 360
QY 361 AAAGTCATGACACCCCTTACTTGGGCTTCCCGCACTCATAGGGATATCCCTGTGTA 420
Db 361 AAAGTCATGACACCCCTTACTTGGGCTTCCCGCACTCATAGGGATATCCCTGTGTA 420
QY 421 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
Db 421 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
QY 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
Db 481 GGGGCTCGGWTGGGAGGCGTGGCGGNNGGCTTGGGCACTGGGGTCANGNATGAGAGAC 480
QY 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
Db 541 CTTCTCTGCTGCTTACACACGAGCTTCCGGGGGCACTTACCAACAATCTGGGCTG 600
QY 601 TACCATCTACCAACGAGCTGCGGCAACGAGCACTGCTTATGAGGGGAGACATGATT 660
Db 601 TACCATCTACCAACGAGCTGCGGCAACGAGCACTGCTTATGAGGGGAGACATGATT 660
QY 661 TTGCACTTGTCTGGGTGTACTTGTGTGAAGTGAATCAATCCCGTGTGGGTG 720
Db 661 TTGCACTTGTCTGGGTGTACTTGTGTGAAGTGAATCAATCCCGTGTGGGTG 720

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QY 721 CAGGCTCCCGGACCTGCGAGTCCGAGCGGTCTAGCCAGTCAACCGGGTCCGCAA 780
 Db 721 CTTCTCTCCCGACCTTGAAGCGTCCCACTCATAGTGCAGATCCAGGGTTCGCGGA 780
 QY 781 CATGTGACATCATGTGAGGCGCTGCCGCTTCTGTCAGTATGATGTGGGGAGCTTG 840
 Db 781 CACGTAGACCTCTCTGTTGGGGCAGCGGCAATTTGTTGGCCATGTATCATCGGAGCCTC 840
 QY 841 TGGCGGGGCTTTTCTCTGTTGGAGACGCTTTACGCTCAGGAGCTCGGATCATCAGTT 900
 Db 841 TGTGTAGCATTAATCTTGTGAGGCGAGCTTTTACTTTCAAGGCTTAAGTACATCAGGTT 900
 QY 901 GTCCAGAGGTGATGTTTCATCTACACAGGAGCATATCAGGAGCAGCAAGTGGCA 957
 Db 901 ACCGAGTTGTAACTGCTCTATNAACNCTGAGCCAGTCAAGGAGCAGAGATGGCA 957

RESULT 4
 US-08-324-977-9
 ; Sequence 9, Application US/08324977
 ; Patent No. 5747339
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKU, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St., N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703D
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELEX: 440142

; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 ; OTHER INFORMATION: SEQ ID NO: 1"
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-08-324-977-9

Query Match 59.1%; Score 565.4; DB 2; Length 1167;
 Best Local Similarity 74.0%; Pred. No. 1.2e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY 1 ATGAGCACTTCCCAAAACCCCAAGAAAACCAAAAGAACCAATCCGCGCCGACAG 60
 Db 1 ATGAGCAGAAATCTTAACCTCAAGAAAAACCAAGTAAACCAACCGCGCCGACAG 60
 QY 61 GACGTCAAGTTCCCGGGTGGCGGACAGATGCTTGTGAATCTTACTTGTCCGCGAGG 120
 Db 61 GACGTCAAGTTCCCGGGCGGTGGTCAATGCTTGTGAATTTTACCTGTTGCCGCGAGG 120
 QY 121 GGGCCGGCTTGGGTGTGCGCGCAGAGAAAGATTCTGAACGGTCCAGCCAGAGT 180
 Db 121 GGGCCAGGTTGGGTGTGCGCGCCAGAGAAAGATTCTGAACGGTCCAGCCAGAGT 180
 QY 181 AGGGCCCAACCAATACCAAGTGGCCACCAACGGGCGGTACTTGGGCGCCAGCCGGG 240
 Db 181 AGGGCAACCACTATCCCAAGGCTGCGGCGCCAGAGGAGAGACTTGGGCGCCAGG 240
 QY 241 TACCCCTGAGCTCTTTATGGAATGAGGGCTGTGTGGGCAAGGCTGCTGTCCCG 300
 Db 241 TACCTTGGCTCTCTATGCAATGAGGCTTGAAGGTGGGCAAGATGGCTCTGTCAACC 300
 QY 301 CGCGGCTCTGCGCCAAATTTGGGGCCAAACGACCCCGCGAGAGTCCGCAACTGGGT 360
 Db 301 CGCGGCTCCGGCTTAGTTGGGGCCCAAGGACCCCGCGAGAGTCCGCAATTTGGGT 360
 QY 361 AAAGTCAATGACATCTTAATTGGGCTTGGCCGCACTTATAGGGTATATCCCTGTGTA 420
 Db 361 AAAGTCAATGATACCTTACATGAGGCTTGGCGATCTCATAGGGGTATATCCCTGTG 420
 QY 421 GGGCTCCGATTGGAGGCGTGGCGGAGGCTTGGCGGATGGGATCANAGNCATCGAGAC 480
 Db 421 GGGCTCCGCTGGGGGGGCGTGGCGAGGCTTGGCGGATGGGATCGGGGTTCGAGAGAC 480
 QY 481 GAGTAAATTAAGCAACAGAAATCTTCCGAGNCTCTTCTATCTTCTCTTGGCA 540
 Db 481 GGGGTAACTATGCAACAGGAATCTCCCGGTGTCTTCTTCTATCTTCTCTTGGCT 540
 QY 541 CTTCTCTGTCCTTAACAACAGCTTCCGGGCGGATTAACAACAAGTCTGGGCTG 600
 Db 541 CTTCTCTGTCCTTAACAACAGCTTCCGGGCGGATTAACAACAAGTCTGGGATTA 600
 QY 601 TACCATCTACCAAGAGTGGCCCAAGCAGCATCTTTATAGGCGGAGACATGATT 660
 Db 601 TATATGTCAGACAGATGCTCTCAAGCAAGCATTTGTATGAGGAGCGGATTTATC 660
 QY 661 TTGCACTTGCCTGGGTGTATCTTGTGAAGTGAACAATCAATCCGGTGTGGGTG 720
 Db 661 ATGATATCTCTGGGTGTGATCTTGTGTGAAGTGAACAATCAATCCGGTGTGGGTG 720
 QY 721 CAGGCTTCCCGACCTTGGAGTGGCGAGCGGTCTACAGCATCCGGTTCGGCAA 780
 Db 721 GCGCTACTCCCAAGCTTGGAGCGAGGAACTTCACTCCCAACAGAGATGACGCG 780

Qy 781 CATGTGACATCATGTGAGGCGCTCCGCTTCTGTCAGTANGTATGTGGGGACCTG 840
 Db 781 CACGTGATCTGCTCGTTGGGGCGGCTGTTCTGTCGATATGATGGGGACCTC 840
 Qy 841 TGGGGGGGCTTTTCTGTTGGAGAGCTTTACAGCTCAGGCTCGATGATGATT 900
 Db 841 TGGGATCTGTTTCTGCTGCTCAGCTGTTCACTTCTGCTCGCGGATGTGACA 900
 Qy 901 GTCCAGAGTGTAACTGTTCCATCTACACAGGAGATATCACTGACACCGAATGCG 956
 Db 901 TTACAGGACTGTAAGCTGCTCAATTATACCGGACATGTGTGCGGTACCGATGAGC 956

RESULT 5
 US-08-384-616-9
 ; Sequence 9, Application US/08384616
 ; Patent No. 5847101
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
 ; STREET: 1725 K St., N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/384,616
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Stevens-Smith, Theresa M.
 ; REGISTRATION NUMBER: 36,281
 ; REFERENCE/DOCKET NUMBER: 900703B
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 887-0357
 ; TELEX: 440142
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:

NAME/KEY: misc feature
 LOCATION: 1..1167
 OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 OTHER INFORMATION: SEQ ID NO: 1"
 ;
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ;
 ; US-08-384-616-9
 Query Match 59.1%; Score 565.4; DB 2; Length 1167;
 Best Local Similarity 74.0%; Pred. No. 1.2e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

Qy 1 ATGAGCACACTTCCAAAACCCCAAGAAAAACCAAGAAACACCATCCGCGCCACAG 60
 Db 1 ATGAGCACAGATCTTAACCTCAAGAAAAACCAAGTAACCAACCGCGCCACAG 60
 Qy 61 GACGTCAAGTTCCTGGGTGGCGGCAAGATGTTGTGAGTTACTTGTGCGCGCAGG 120
 Db 61 GACGTCAAGTTCCTGGGTGGCGGCAAGATGTTGTGAGTTACTTGTGCGCGCAGG 120
 Qy 121 GGGCGGCTTGGGTGGCGGCAAGAAAGCTTTGAACGGTCCAGCCAGAGT 180
 Db 121 GGGCGGCTTGGGTGGCGGCAAGAAAGCTTTGAACGGTCCAGCCAGAGT 180
 Qy 181 AGGCGCAACCAATACCAAGTGGCGCACCAAGCGGCGTACCTGGGCGCCAGCGG 240
 Db 181 AGGCGCAACCAATACCAAGTGGCGCACCAAGCGGCGTACCTGGGCGCCAGCGG 240
 Qy 241 TACCCCTGGCTCTTTATGGAATGAGAGGCTGTGTTGGAGGCTGCTCTGCTCC 300
 Db 241 TACCCCTGGCTCTTTATGGAATGAGAGGCTGTGTTGGAGGCTGCTCTGCTCC 300
 Qy 301 CGGCGCTCTGCGCCAAATTTGGGGCCCAAGAGACCCCGCGAGAGTCCCGCACTTGG 360
 Db 301 CGGCGCTCTGCGCCAAATTTGGGGCCCAAGAGACCCCGCGAGAGTCCCGCACTTGG 360
 Qy 361 AAAGTCATGACACCTTATCTTGGGCTTGGCGGCTTGAAGGCTTATCCCTGTGCTA 420
 Db 361 AAAGTCATGACACCTTATCTTGGGCTTGGCGGCTTGAAGGCTTATCCCTGTGCTA 420
 Qy 421 GGGCGCTCCGTTGGAGGCGTGGCGGAGGCTTGGCGGAGTGGGCTCANGAGCATGAGAG 480
 Db 421 GGGCGCTCCGTTGGAGGCGTGGCGGAGGCTTGGCGGAGTGGGCTCANGAGCATGAGAG 480
 Qy 481 GAGTAAATTAAGCAAGAGAAATCTTCCGAGGCTTCTTATCTTCTTCTTGGCA 540
 Db 481 GAGTAAATTAAGCAAGAGAAATCTTCCGAGGCTTCTTATCTTCTTCTTGGCT 540
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 Db 541 CTCTCTGTCGCTTAAACACAGCGCTCGCGGCGGATTAATACCAAGTCTGGCGT 600
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 Db 601 TACCATCTACCAAGAGCTGCGCCCAAGAGAGATCTTTATGAGGCGGAGACATGATT 660
 Qy 661 TTGCACTTGGCTGGGTGTGTAAGTGTGAAGTGAAGTAATCAATCCGCTGTGGGTG 720
 Db 661 TTGCACTTGGCTGGGTGTGTAAGTGTGAAGTGAAGTAATCAATCCGCTGTGGGTG 720
 Qy 721 CAGGCTCCCGGAGCCGAGAGTGGAGAGAGGCTTGAAGGCAAGTCAACGAGGTTCCGAAA 780
 Db 721 CAGGCTCCCGGAGCCGAGAGTGGAGAGAGGCTTGAAGGCAAGTCAACGAGGTTCCGAAA 780
 Qy 781 CATGTGACATCATGTGAGGCGCTCCGCTTCTGTCAGTANGTATGTGGGGACCTG 840
 Db 781 CACGTGATCTGCTCGTTGGGGCGGCTGTTCTGTCGATATGATGGGGACCTC 840
 Qy 841 TGGGGGGGCTTTTCTGTTGGAGAGCTTTACAGCTCAGGCTCGATGATGATT 900
 Db 841 TGGGGGGGCTTTTCTGTTGGAGAGCTTTACAGCTCAGGCTCGATGATGATT 900

QY 901 GTCCAGAGTGTAACTGTTCCATCTACACAGGCGATATCATCGACACCGAATGAC 956
Db 901 TTACAGACCTGTAACCTGCTCAATTATATCCGCGCATGTGTGGGTACCCGTAATGAC 956

RESULT 6

US-08-904-686A-9
Sequence 9, Application US/08904686A
Patent No. 598130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hirotō
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSER: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of

OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-904-686A-9

Query Match 59.1%; Score 565.4; DB 2; Length 1167;
Best Local Similarity 74.0%; Pred. No. 1,2e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY 1 ATGAGCACCTTCCAAAACCCCAAGAAAAACCAAAAGAAAACCATCCGCCGCCACAG 60
Db 1 ATGAGCACGAATCCTAAACCTCAAGAAAAACCAAGTAACCAACCCGCCGCCACAG 60
QY 61 GAGCTCAAGTTCCTGGGTGGCGCGAGATGGTGTGAGTGAATCTTGTCTGCGCGGAGG 120
Db 61 GAGCTCAAGTTCCTGGGTGGCGCGAGATGGTGTGAGTGAATCTTGTCTGCGCGGAGG 120
QY 121 GGCCCGGCTTGGGTGGCGCGAGAGAAAGACTTCTGAACGGTCCAGCCAGAGT 180
Db 121 GGCCCGGCTTGGGTGGCGCGAGAGAAAGACTTCTGAACGGTCCAGCGTGGGA 180
QY 181 AGGCGCAACCAATACCAAAAGTGGCCCAACCAAGGCGGTACCTGGGCCAGCCGGG 240
Db 181 AGGCGCAACCAATACCAAAAGTGGCCCAACCAAGGCGGTACCTGGGCTCAGCCGGG 240
QY 241 TACCCCTGGCTCTTTATGAAATGAGGGCTGTGGTGGGCAAGCTGCTGCTCCGCC 300
Db 241 TACCTTGGGCTCTTATGGAATGAGGGCTTGAAGTGGGAGAGATGGCTGCTGCAACC 300
QY 301 CGCGGCTCTGCGCCCAATGGGGGCCCAAGACCCCGCGGAGAGTCCGCAACTTGGGT 360
Db 301 CGCGGCTCTGCGGCTTATGGGAGAGGGCTTGAAGTGGGAGAGATGGCTGCTGCAACC 360
QY 361 AAGTATCGAACACCTTACTTGGGGCTTGGCGGACTCATGGGGTACATTCGCTGTC 420
Db 361 AAGTATCGAATACCTTCAATGAGGGCTTGGCGGACTCATGGGGTACATTCGCTGTC 420
QY 421 GGGCTCGMTGGGGGGCGTGGCGGAGGCGTGGCGGATGGGGGTCAGGNCATGAGGAC 480
Db 421 GGGCTCGGCGGGGGGGCGTGGCGGAGGCGTGGCGGATGGGGTTCGGAGGAC 480
QY 481 GAGTAAATTAACGACAGAGAAATCTTCCGANNCTCTTCTCTATCTTCTTGGCA 540
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QY 601 TACCATCTACCAACGAGTGGCCCAAGAGCATGCTTATAGGGGAGACATGATT 660
Db 601 TATCATGTCACGAACGAGTGGCTTCAAGCAAGCATTGTATGAGGAGAGCACTTATC 660
QY 661 TTGCACTGCTGGGTGTGTAACCTTGTGTAAGTGTGATCAATCCGGTGTGGGTG 720
Db 661 ATGCAATCTCTGGGTGTGTAACCTTGTGTAAGTGTGATCAATCCGGTGTGGGTG 720
QY 721 CAGGCTCCCGACCTGGGAGAGTCCGAAGCGGTTCAGCCAGTCAACCGGTTCCGAAA 780
Db 721 CAGGCTCCCGACCTGGGAGAGTCCGAAGCGGTTCAGCCAGTCAACCGGTTCCGAAA 780
QY 781 CATGTGACATCATGAGGGGCGTGGCGGCTTGTGAGTATGATGAGGAGACCTG 840
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QY 841 TGGCGGGGCTTTTCTGTTGAGCAGCTCTTCAACGCTTCAGGCTCGAGATCAGATT 900
Db 841 TGGCGATCTGTTTCTGCTGCTCAGCTGTTCACCTTCTGCTGCGCGGCAATGTGCA 900
QY 901 GTCCAGAGTGTAACTGTTCCATCTACACAGGCGATATCATCGACACCGAATGAC 956
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RESULT 7

US-09-315-850-9
 ; Sequence 9, Application US/09315850
 ; Patent No. 6217872
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Iwao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ; ADDRESS: Naughton
 ; STREET: 1725 K St., N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/315,850
 ; FILING DATE:
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/904,686
 ; FILING DATE: 01-AUG-1997
 ; APPLICATION NUMBER: US/08/324,977
 ; FILING DATE: 18-OCT-1994
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605
 ; FILING DATE: 09-NOV-1990
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/099,706
 ; FILING DATE: 30-JUL-1993
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/769,996
 ; FILING DATE: 02-OCT-1991
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/635,451
 ; FILING DATE: 28-DEC-1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Mclelland, Le-Nhung
 ; REGISTRATION NUMBER: 31,541
 ; REFERENCE/DOCKET NUMBER: 900703G
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 659-2930
 ; TELEFAX: (202) 687-0357
 ; INFORMATION FOR SEQ ID NO: 9:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1167 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA from genomic RNA
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: 1..1167
 ; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
 ; OTHER INFORMATION: SEQ ID NO: 1"

FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..1167
 ; US-09-315-850-9

Query Match 59.1%; Score 565.4; DB 3; Length 1167;
 Best Local Similarity 74.0%; Pred. No. 1,2e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

| | | | | | |
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| Qy | 1 | ATGAGCACTTCCAAACC | CAAGAAACCAAGAAAC | CCATCCGCCGCCACAG | 60 |
| Db | 1 | ATGAGCAAGATCTTAAC | CTCAAGAAAAACCAAG | CAACCAACCGCCGCAAG | 60 |
| Qy | 61 | GACCTCAAGTTCCGGG | TGCGGCGGCAATGTT | GGTGAAGTCTACTTGTCC | 120 |
| Db | 61 | GACCTCAAGTTCCGGG | TGCGGCGGCAATGTT | GGTGAAGTCTACTTGTCC | 120 |
| Qy | 121 | GGCCCGGCTTGGTGTG | CGCGCGACAGAAAG | CTTCTGAACGGTCCAC | 180 |
| Db | 121 | GGCCCGGCTTGGTGTG | CGCGCGACAGAAAG | CTTCTGAACGGTCCAC | 180 |
| Qy | 181 | AGGCGCCAACTATCC | CAAAAGTGGCCACCA | ACGGGCGGTACTTGGCC | 240 |
| Db | 181 | AGGCGCAACCTATCC | CAAGGCTGCGCGGCG | CAAGGACCTTGGCTCAC | 240 |
| Qy | 241 | TACCCCTGGCCTCTT | TATGGAATAGAGGCT | GTGTTGGGAGGCTGCTC | 300 |
| Db | 241 | TACCTTGCCCTCTCT | TATGGAATAGAGGCT | TAGGGTGGGAGGATGG | 300 |
| Qy | 301 | CGCGGCTCTCGCC | CAAAATGGGGCCAA | ACGACCCCGCGGAGTCC | 360 |
| Db | 301 | CGCGGCTCTCGCC | CAAAATGGGGCCAA | ACGACCCCGCGGAGTCC | 360 |
| Qy | 361 | AAATCATGCAACCT | TACTTGGGCTTGGCG | CACTCATAGGGTATATCC | 420 |
| Db | 361 | AAATCATGCAACCT | TACTTGGGCTTGGCG | CACTCATAGGGTATATCC | 420 |
| Qy | 421 | GGGCTCCGWTGGAGG | CGTGCAGGAGCTT | GGCGGATGACAGCATGAG | 480 |
| Db | 421 | GGGCTCCGWTGGAGG | CGTGCAGGAGCTT | GGCGGATGACAGCATGAG | 480 |
| Qy | 481 | GGGCTCCGWTGGAGG | CGTGCAGGAGCTT | GGCGGATGACAGCATGAG | 480 |
| Db | 481 | GGGCTCCGWTGGAGG | CGTGCAGGAGCTT | GGCGGATGACAGCATGAG | 480 |
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| Db | 541 | CTTCTCTGTCCTTA | CAACAGCTCCGCGG | CGCATTAACCAAGTCTG | 600 |
| Qy | 601 | TACCATCTCAACAG | CTGCCCCCAACAG | CAAGCATGCTTATAGG | 660 |
| Db | 601 | TATCATGTCAGAA | CGAGCTGCTCAAC | AGCAAGTGTATAGG | 660 |
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| Db | 661 | ATGATATCTCTGG | TGTGTGTGCTGCT | CGTGTGGAAGCACTCT | 720 |
| Qy | 721 | CAGGCTTCCCGAC | CTTGGAGTGGCCGA | AGCGCTTACGCCAGTCA | 780 |
| Db | 721 | CGGCTCACTCCAC | GTGCGAGCGAGCC | AGGAGCTCACTCCAC | 780 |
| Qy | 781 | CATGTGACATCATG | TGAGGCGGCTGCG | CGTCTTCAAGTATATG | 840 |
| Db | 781 | CAGTCAATCTGCTG | TGAGGCGGCTGCT | TTCTTCTGCTATATG | 840 |
| Qy | 841 | TGCGGAGGCTTTT | CTCTGTGGAAGCT | CTTCAAGCTTCAAGGCT | 900 |
| Db | 841 | TGCGGATCTGTTT | CTCTGTGGAAGCT | CTTCAAGCTTCAAGGCT | 900 |
| Qy | 901 | GTCAGAGATGTAA | CTGTTCAATACAGG | GCATATCACTGACACCA | 956 |
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RESULT 8
US-08-324-977-3
? Sequence 3, Application US/08324977
? Patent No. 5747339
? GENERAL INFORMATION:
? APPLICANT: OKAYAMA, Hiroto
? APPLICANT: FUKU, Ieao
? APPLICANT: MORI, Chisato
? APPLICANT: TAKAMIZAWA, Akahisa
? APPLICANT: YOSHIDA, Iyao
? TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
? TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
? NUMBER OF SEQUENCES: 50
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Armstrong, Westernman, Hattori, McIreland &
? ADDRESSEE: Naughton
? STREET: 1725 K St., N.W. Suite 1000
? CITY: Washington
? STATE: D.C.
? COUNTRY: U.S.A.
? ZIP: 20006
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
? SOFTWARE: ASCII
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/324,977
? FILING DATE: 18-OCT-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-167466
? FILING DATE: 25-JUN-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-230921
? FILING DATE: 31-AUG-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 2-305605
? FILING DATE: 09-NOV-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/099,706
? FILING DATE: 30-JUL-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/769,996
? FILING DATE: 02-OCT-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/635,451
? FILING DATE: 28-DEC-1990
? ATTORNEY/AGENT INFORMATION:
? NAME: Stevens-Smith, Theresa M.
? REGISTRATION NUMBER: 36,281
? REFERENCE/DOCKET NUMBER: 900703D
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202) 659-2930
? TELEFAX: (202) 887-0357
? TELEX: 440142
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1499 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA from genomic RNA
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 333..1499
? FEATURE:
? NAME/KEY: misc feature
? LOCATION: 1..1499
? OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
? OTHER INFORMATION: ID NO: 1"
US-08-324-977-3

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| Query Match | 59.1% | Score 565.4 | IDB 2 | Length 1499 |
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| OY | 61 | GACGTCAAGTTCCCGGGTGGCGGCAGATGTTGGTGAAGTCTACCTTGCGCGCAAG | 120 | |
| Db | 393 | GACGTCAAGTTCCCGGGCGGGGTGTCAGATCGTTGGTGAAGTTTACCTGTGGCGCGAAG | 452 | |
| OY | 121 | GGCCCCGCTTGGGTGTGGCGCGCAAGAAAGACTTGAACGGTCCGAGCCCAAGGT | 180 | |
| Db | 453 | GGCCCCAGTTGGGTGTGGCGCGCCCAAGAAAGACTTGAACGGTGTGAACCTGTGGA | 512 | |
| OY | 181 | AGGCGCAACCAATACCCAAAGTGCAGCACAAACGGGCGGTACCTTGAGCCAGCCCGG | 240 | |
| Db | 513 | AGGCGCAACCTATACCCCAAGGCTCCGCGCCCAAGGCAAGACTGGGTCAAGCCCGG | 572 | |
| OY | 241 | TACCCCTGGCTCTTTATGAAATGAGGGCTGTGGTGGGCAAGCTGCTTGTCCCC | 300 | |
| Db | 573 | TACCTTGGCTCTCTATGGAATGAGGGCTTAGGGTGGGCAAGATGAGCTCTGTCAAC | 632 | |
| OY | 301 | CGCGGCTCTGCGCCAAATTGGGGCCCAAGACACCCCGCGGAGGTCCCGCAATTGGGT | 360 | |
| Db | 633 | CGCGGCTCTCGCGCTTAATTGGGGCCCAAGACACCCCGCGGTAGTGGCTAATTGGGT | 692 | |
| OY | 361 | AAAGTCATCGACACCTTACTTGTGGGCTTGCGCGACCTCATGGGGTATATCCCTGTGTA | 420 | |
| Db | 693 | AAAGTCATCGATACCTTCACTGCGGCTTGCGCGACATGGGTATATCCCTGTGTA | 752 | |
| OY | 421 | GGCGCTCCGATGGGAGGGTGCAGGAGGCTTGGCGATGGGAGTCANAGCATGAGGAC | 480 | |
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| OY | 481 | CGAGTAAATTACGAAACAGNAATCTTCCCGAGGCTCTTCTATCTTCTTCTTGA | 540 | |
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| OY | 541 | CTTCTCTGCTCTTCAACACACAGCTCCGCGGCGATTATCAACAAAGTCTGAGCTG | 600 | |
| Db | 873 | CTGCTGTCTGCTGACCAACCCAGCTTCCGCTTACGAAGTGCACAACTGTCCGGATA | 932 | |
| OY | 601 | TACCATCTCAACCAAGACTGCCCCAAGACAGCATGTTATGAGCGGAGACATGATT | 660 | |
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| OY | 781 | CATGAGCATCATGTTGGGCGCTGCGCGCTTCTGTTCACTATGTAATGTTGGGAGACTG | 840 | |
| Db | 1113 | CACGTCAATCTGCTCGTTGGGGCGGCTTCTTGTTCCGTTAATGTAATGTTGGGAGACTC | 900 | |
| OY | 841 | TGCGGGGCGCTTCTCTGTTGAAACAGCTCTTCAAGCTCAGGCGCTCGAATGATCAGGTT | 900 | |
| Db | 1173 | TGCGGATCTGTTTCTGCTGCTCTCAGCTGTTCACTTCTGCGCTCGCGGACATGTGACA | 1232 | |
| OY | 901 | GTCCAGAGTGTAACTGTTCATCTACACAGGAGATTAACATGGAACCCGAATGGC | 956 | |
| Db | 1233 | TTACAGAGCTGTAACTGCTCAATTTATCCGGGCAATGTGAGGTCAACGATGGC | 1288 | |

```

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Iao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westernman, Hattori, Mcleland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
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FEATURE:
NAME/KEY: misc feature
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US-08-384-616-3

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[illegible]

NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
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APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
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US-08-904-686A-3

Query Match 59.1%; Score 565.4; DB 2: Length 1499;
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Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAAACCCCAAGAAACCAAAACACACCATCGCGCCCAAG 60
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QY 61 GACGTCAAGTTCCCGGGTGGCGGCAGATCGTTGGTGAAGTCTACTTGTCCGGCGAG 120
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QY 481 GAGTAAATTACGCAAGAGAAATCTTCCGAGGCTCTTATCTTATCTTCTTCTTCTTGA 540
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QY 841 TCGGGGGCTTTTCTGCTGTTGACAGCTCTTCAAGCTCAAGGCTCGAGTCAAGATT 900
DB 1173 TCGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1232
QY 901 GTCCAGAGTGTAACTGTTCACTTACACAGGAGATATCACTGACACCGAATGCG 956
DB 1233 TTACAGAGCTGTACTGCTCAATTATCCGGGCATGTGTGCGGTACACCGATGCG 1288

RESULT 11
US-09-315-850-3
Sequence 3, Application US/09315850
Patent No. 6217872
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &

ADDRESSEE: Naughton
 STREET: 1725 K St., N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/315,850
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686
 FILING DATE: 01-AUG-1997
 APPLICATION NUMBER: US/08/324,977
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 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
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 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Mclelland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
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 LOCATION: 1..1499
 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-09-315-850-3

Query Match 59.1%; Score 565.4; DB 3; Length 1499;
 Best Local Similarity 74.0%; Pred. No. 1,4e-158;
 Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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RESULT 12
 US-08-324-977-11
 Sequence 11, Application US/08324977
 Patent No. 5747339
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 TITLE OF INVENTION: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
 ADDRESSEE: Naughton

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STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-324-977-11
Query Match 59.1%; Score 565.4; DB 2; Length 6039;
Best Local Similarity 74.0%; Pred. No. 2,8e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0
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DB 1 ATGACACACCAATCTTAAACCTCAAGAAAAACCAAGCAACCAACCGCGCCACAG 60
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      301 |||||
Db      301 CGGAGGCTCCCGGCTTGAATTGGGGGCCCAAGACCCCGGAGTGAAGTGCCTTAATTGGGT 360
      301 |||||
Oy      361 AAAGTCATCGACACCCCTTACTTGCAGGCTTTCGCCACCTCATGAGGATATATCCCTGTGTA 420
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Db      361 AAGTCATCGATACCTCTCAATGCGGCTTCCGCATCTCATGGGGATCATTCGCGTGTG 420
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RESULT 13
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; Sequence 11, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westelman, Hattori, Mcleland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/384,616
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-08-384-616-11

Query Match          59.1%; Score 565.4; DB 2; Length 6039;
Best Local Similarity 74.0%; Pred. No. 2,8e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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RESULT 14
US-08-904-686A-11
; Sequence 11, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, HIROTO
; APPLICANT: FUKU, ISAO
; APPLICANT: MORI, CHIATO
; APPLICANT: TAKAMIZAWA, AKAHISA
; APPLICANT: YOSHIDA, IWAO
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997

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: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/324,977
: FILING DATE: 18-OCT-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 2-167466
: FILING DATE: 25-JUN-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 2-230921
: FILING DATE: 31-AUG-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 2-305605
: FILING DATE: 09-NOV-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/099,706
: FILING DATE: 30-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/769,996
: FILING DATE: 02-OCT-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/635,451
: FILING DATE: 28-DEC-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: Mclelland, Le-Nhung
: REGISTRATION NUMBER: 31,541
: REFERENCE/DOCKET NUMBER: 900703G
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (202) 659-2930
: TELEFAX: (202) 887-0357
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 6039 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: CDNA from genomic RNA
: FEATURE:
: NAME/KEY: misc feature
: LOCATION: 1..6039
: OTHER INFORMATION: /note: "sequence = 333 - 6371 of
: OTHER INFORMATION: SEQ ID NO: 1"
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 1..6039
: US-08-904-686A-11

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Query Match      59.1%; Score 565.4; DB 2: Length 6039;
Best Local Similarity 74.0%; Pred. No. 2.8e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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Db 1 ATGAGCAGAGATCCCAAACTCAAAAGAAAACCAAAAGAAACACCAACCGCGCCGACAG 60
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QY 541 CTCTCTGCTGCTTACCAACAGCTCGCGGCGGATTAACCAAGTCTGAGCTG 600
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Db 841 TGGCGATCTGTTTCTGTTGAGACAGCTCTTCAAGCTTCAAGGCTCGAGTCAAGATT 900
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RESULT 15
US-09-315-850-11
: Sequence 11, Application US/09315850
: Patent No. 6217872
: GENERAL INFORMATION:
: APPLICANT: OKAYAMA, Hiroto
: APPLICANT: FUKU, Iseo
: APPLICANT: MORI, Chisato
: APPLICANT: TAKAMIZAWA, Akahisa
: APPLICANT: YOSHIDA, Iwao
: TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
: NUMBER OF SEQUENCES: 50
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
: STREET: 1725 K St. N.W. Suite 1000
: CITY: Washington
: STATE: D.C.
: COUNTRY: U.S.A.
: ZIP: 20006
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
: SOFTWARE: ASCII
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/315,850
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/904,686
: FILING DATE: 01-AUG-1997

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APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 6039 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..6039
OTHER INFORMATION: /note: "sequence = 333 - 6371 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..6039
US-09-315-850-11

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Query Match          59.1%; Score 565.4; DB 3; Length 6039;
Best Local Similarity 74.0%; Pred. No. 2.8e-158;
Matches 707; Conservative 2; Mismatches 247; Indels 0; Gaps 0;

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DB 1 ATGAGCACTTCCAAAAACCCCAAGAAAAACCAAGAAACACCATCCGCGCCCAAG 60
QY 61 GAGGTCAAGTTCGGGGTGGCGGCGAGTCTGTTGGTGAATCTACTTGTGCGCGCAG 120
DB 61 GAGGTCAAGTTCGGGGTGGCGGCGAGTCTGTTGGTGAATCTACTTGTGCGCGCAG 120
QY 121 GGGCGGCGCTTGGGTGTGCGCGGCGAGCGAGAAAGACTTCTGAACGGTCCCGACCAAG 180
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DB 181 AGGCGCAACCAATACCAAGTGGCGCACCAACGGGGCGGTACCTGGGCGCCAGCCGAG 240
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QY 301 CGGGGCTTCGCCCAAAATGGGGGCCCAACGACCCCGCGGAGAGTCCCGCACTTGGGT 360
DB 301 CGGGGCTTCGCCCAAAATGGGGGCCCAACGACCCCGCGGAGAGTCCCGCACTTGGGT 360
QY 361 AAAGTCATGACACCTTACTTGGGGCTTGGCGGACCTCATGGGTATATCCCTGTGTA 420

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QY 541 CTCTCTGCTGCTTACCAACCAAGCTCCGGGCGGATTAACCAAAAGTCTGAGCTG 600
DB 541 CTCTCTGCTGCTTACCAACCAAGCTCCGGGCGGATTAACCAAAAGTCTGAGCTG 600
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QY 721 CAGGCTCCCGACCCCTGAGTGGCGGAGCGCGTCTACGCGCACTCACCGGATTCGCA 780
DB 721 CAGGCTCCCGACCCCTGAGTGGCGGAGCGCGTCTACGCGCACTCACCGGATTCGCA 780
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QY 841 TGGGGGGGCTTTTCTGTTGAGCAAGCTTCAAGCTCAGGCTGAGGATGATCAGATT 900
DB 841 TGGGGGGGCTTTTCTGTTGAGCAAGCTTCAAGCTCAGGCTGAGGATGATCAGATT 900
QY 901 GTCCAGAGTGTAACTGTTCTCATCTACACAGGCGATATCACTGAGACCCGAATGGC 956
DB 901 GTCCAGAGTGTAACTGTTCTCATCTACACAGGCGATATCACTGAGACCCGAATGGC 956

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Job time : 233.737 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-45
Perfect score: 413
Sequence: 1 atgagcacactcttaacc.....gacctcatagatattcc 413

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|--------------------|-------------------|
| 1 | 409.6 | 99.2 | 413 | US-08-836-075A-45 | Sequence 45, Appl |
| 2 | 355.2 | 86.0 | 957 | US-08-836-075A-43 | Sequence 47, Appl |
| 3 | 339.8 | 82.3 | 957 | US-08-836-075A-47 | Sequence 41, Appl |
| 4 | 329.6 | 79.8 | 549 | US-08-441-971-54 | Sequence 54, Appl |
| 5 | 329.6 | 79.8 | 549 | US-08-221-653-54 | Sequence 54, Appl |
| 6 | 329.6 | 79.8 | 549 | US-08-442-144A-54 | Sequence 54, Appl |
| 7 | 329.6 | 79.8 | 549 | US-08-441-970-54 | Sequence 54, Appl |
| 8 | 328 | 79.4 | 549 | US-08-441-971-57 | Sequence 57, Appl |
| 9 | 328 | 79.4 | 549 | US-08-221-653-57 | Sequence 57, Appl |
| 10 | 328 | 79.4 | 549 | US-08-442-144A-57 | Sequence 57, Appl |
| 11 | 328 | 79.4 | 549 | US-08-441-970-57 | Sequence 57, Appl |
| 12 | 326.4 | 79.0 | 536 | US-08-470-426B-2 | Sequence 2, Appl |
| 13 | 326.4 | 79.0 | 540 | US-08-470-426B-12 | Sequence 32, Appl |
| 14 | 326.4 | 79.0 | 549 | US-08-441-971-53 | Sequence 53, Appl |
| 15 | 326.4 | 79.0 | 549 | US-08-221-653-53 | Sequence 53, Appl |
| 16 | 326.4 | 79.0 | 549 | US-08-442-144A-53 | Sequence 53, Appl |
| 17 | 326.4 | 79.0 | 549 | US-08-441-970-53 | Sequence 53, Appl |
| 18 | 326.4 | 79.0 | 573 | US-08-290-665A-106 | Sequence 106, App |
| 19 | 326.4 | 79.0 | 573 | US-08-290-665A-154 | Sequence 106, App |
| 20 | 326.4 | 79.0 | 573 | PCT-US95-10398-106 | Sequence 106, App |
| 21 | 326.4 | 79.0 | 573 | PCT-US95-10398-154 | Sequence 154, App |
| 22 | 326.4 | 79.0 | 957 | US-08-836-075A-41 | Sequence 41, Appl |
| 23 | 326.4 | 79.0 | 1539 | US-08-470-426B-16 | Sequence 16, Appl |
| 24 | 326.4 | 79.0 | 1863 | US-08-470-426B-13 | Sequence 13, Appl |

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|----|-------|------|-------|---|--------------------|-------------------|
| 25 | 324.8 | 78.6 | 549 | 3 | US-08-441-971-56 | Sequence 56, Appl |
| 26 | 324.8 | 78.6 | 549 | 3 | US-08-221-653-56 | Sequence 56, Appl |
| 27 | 324.8 | 78.6 | 549 | 3 | US-08-442-144A-56 | Sequence 56, Appl |
| 28 | 324.8 | 78.6 | 549 | 3 | US-08-441-970-56 | Sequence 56, Appl |
| 29 | 324.8 | 78.6 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, Appl |
| 30 | 324.8 | 78.6 | 9416 | 3 | US-10-104-966-13 | Sequence 13, Appl |
| 31 | 324.8 | 78.6 | 9416 | 3 | US-09-929-955-13 | Sequence 13, Appl |
| 32 | 324.8 | 78.6 | 9599 | 3 | US-09-014-416-2 | Sequence 2, Appl |
| 33 | 324.8 | 78.6 | 9646 | 3 | US-08-811-566-1 | Sequence 1, Appl |
| 34 | 324.8 | 78.6 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appl |
| 35 | 324.8 | 78.6 | 10801 | 3 | US-10-259-275-17 | Sequence 17, Appl |
| 36 | 324.8 | 78.6 | 12980 | 3 | US-08-811-566-5 | Sequence 5, Appl |
| 37 | 324.8 | 78.6 | 12980 | 3 | US-09-034-756-5 | Sequence 5, Appl |
| 38 | 323.2 | 78.3 | 573 | 2 | US-08-290-665A-104 | Sequence 104, App |
| 39 | 323.2 | 78.3 | 573 | 2 | US-08-290-665A-107 | Sequence 107, App |
| 40 | 323.2 | 78.3 | 573 | 2 | US-08-290-665A-108 | Sequence 108, App |
| 41 | 323.2 | 78.3 | 573 | 6 | PCT-US95-10398-104 | Sequence 104, App |
| 42 | 323.2 | 78.3 | 573 | 6 | PCT-US95-10398-107 | Sequence 107, App |
| 43 | 323.2 | 78.3 | 573 | 6 | PCT-US95-10398-108 | Sequence 108, App |
| 44 | 323.2 | 78.3 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl |
| 45 | 323.2 | 78.3 | 9401 | 2 | US-08-432-693-1 | Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-45
Sequence 45, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9487016.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 9587007.6
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 413 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-45

Query Match 99.2%; Score 409.6; DB 3; Length 413;
Best Local Similarity 100.0%; Pred. No. 4.2e-112;
Matches 413; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAAGTTCCCGGCTGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 120
DB 61 GACGTCAAGTTCCCGGCTGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 120
QY 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
DB 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
QY 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
DB 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
QY 181 AGAGCCCAACTATACGAAAGGTGTCACCAACGAGCGCTGAGCTCAACCGGAG 240
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QY 241 TACCCCTGCTCTTTATGGAATGAGGATGAGGCTGAGCTGAGCTGAGCTGAGCT 300
DB 241 TACCCCTGCTCTTTATGGAATGAGGATGAGGCTGAGCTGAGCTGAGCTGAGCT 300
QY 301 CNGGCTCTCGCCTTAATTGGGCGCTTAATGACCCCGAGGAGGTCCCGCACTGGGT 360
DB 301 CNGGCTCTCGCCTTAATTGGGCGCTTAATGACCCCGAGGAGGTCCCGCACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGTTGCGGAGCTCATAGATGATTC 413
DB 361 AAGGTCAATGATACCTTACTTGGGTTGCGGAGCTCATAGATGATTC 413
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RESULT 2

US-08-836-075A-43
Sequence 43, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO

US-08-836-075A-43

Query Match 86.0%; Score 355.2; DB 3; Length 957;
Best Local Similarity 90.8%; Pred. No. 8.3e-96;
Matches 375; Conservative 1; Mismatches 37; Indels 0; Gaps 0;

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QY 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACACTTCTTAACCTCAAGAAAGAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAAGTTCCCGGCTGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 120
DB 61 GACGTCAAGTTCCCGGCTGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 120
QY 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
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QY 121 GGCCTCGTTGGGTGTCGCGGTCAGATCGTTGAGTTACTTTGTCGCGCAGG 180
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QY 181 AGAGCCCAACTATACGAAAGGTGTCACCAACGAGCGCTGAGCTCAACCGGAG 240
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QY 241 TACCCCTGCTCTTTATGGAATGAGGATGAGGCTGAGCTGAGCTGAGCTGAGCT 300
DB 241 TACCCCTGCTCTTTATGGAATGAGGATGAGGCTGAGCTGAGCTGAGCTGAGCT 300
QY 301 CNGGCTCTCGCCTTAATTGGGCGCTTAATGACCCCGAGGAGGTCCCGCACTGGGT 360
DB 301 CNGGCTCTCGCCTTAATTGGGCGCTTAATGACCCCGAGGAGGTCCCGCACTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGTTGCGGAGCTCATAGATGATTC 413
DB 361 AAGGTCAATGATACCTTACTTGGGTTGCGGAGCTCATAGATGATTC 413
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RESULT 3

US-08-836-075A-47
Sequence 47, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTIONS: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 957 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-47

Query Match 82.3%; Score 339.8; DB 3; Length 957;
 Best Local Similarity 88.6%; Pred. No. 3.2e-91;
 Matches 366; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
 DB 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
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 DB 61 GATGTCAAGTTCCCGGCGGTGCGGTGAGATCGTGTGAGTTTACTTGTGCGCGGAG 120
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 QY 301 CACGCTCTGCGCTTAATTGGGCGCTTAATGACCCCGGAGAGGTCCGCAACCTG 360
 DB 301 CACGCTCTGCGCTTAATTGGGCGCTTAATGACCCCGGAGAGGTCCGCAACCTG 360
 QY 361 AAGTCAATGATACCTTACTTGGGTTGCGCGCACTCATAGATCATTC 413
 DB 361 AAGTCAATGATACCTTACTTGGGTTGCGCGCACTCATAGATCATTC 413

RESULT 4

US-08-441-971-54
 Sequence 54, Application US/08441971
 Patent No. 6071693
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,971
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 MAY 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janiuk, Anthony J.
 REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 54:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 549 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: aus1
 US-08-441-971-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
 Best Local Similarity 86.9%; Pred. No. 2.9e-88;
 Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
 DB 1 ATGAGCACATCTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
 QY 61 GACGTCAAGTTCCCGGCGGTGCGGTGAGATCGTGTGAGTTTACTTGTGCGCGGAG 120
 DB 61 GACGTCAAGTTCCCGGCGGTGCGGTGAGATCGTGTGAGTTTACTTGTGCGCGGAG 120
 QY 121 GGCCTCTGTTGGTGTGCGCGGCGAGAGAACTTCTGAACGCTCCAGCCGAGG 180
 DB 121 GGCCTCTGTTGGTGTGCGCGGCGAGAGAACTTCTGAACGCTCCAGCCGAGG 180
 QY 181 AGAGGCCAACCTATACCGAAGGTGCTACCAACCGGCGTACTGCGCTCAACCGG 240
 DB 181 AGAGGCCAACCTATACCGAAGGTGCTACCAACCGGCGTACTGCGCTCAACCGG 240
 QY 241 TACCCCTGCGCTCTTATGGAATGAGGTTGTGCTGCGGAGGTGCTCTGTCGCC 300
 DB 241 TACCCCTGCGCTCTTATGGAATGAGGTTGTGCTGCGGAGGTGCTCTGTCGCC 300
 QY 301 CACGCTCTGCGCTTAATTGGGCGCTTAATGACCCCGGAGAGGTCCGCAACCTG 360
 DB 301 CACGCTCTGCGCTTAATTGGGCGCTTAATGACCCCGGAGAGGTCCGCAACCTG 360
 QY 361 AAGTCAATGATACCTTACTTGGGTTGCGCGCACTCATAGATCATTC 413
 DB 361 AAGTCAATGATACCTTACTTGGGTTGCGCGCACTCATAGATCATTC 413

RESULT 5

US-08-221-653-54
 Sequence 54, Application US/08221653
 Patent No. 6190864
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: aus1
US-08-221-653-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAGATTCCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 120
DB 61 GACGTTAAGTTCCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 120
QY 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
DB 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
QY 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
DB 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
QY 181 AGAGCCCAACTATACCGAAGGTGCGTCAACCAACGGGCGTACCTGAGCTCAACCCGAG 240
DB 181 AGAGCTCAGCCTATACCTTAAGGCGGTGCGGCGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 241 TACCCCTGCGCTCTTTATGGAATGAGGTTGTGCTGCGGCGAGGAGGAGGAGGAGGAG 300
DB 241 TACCCCTGCGCTCTTTATGGAATGAGGTTGTGCTGCGGCGAGGAGGAGGAGGAGGAG 300
QY 301 CAGGCTCGTGGCTTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
DB 301 CAGGCTCGTGGCTTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 361 AAGGTATGATATCCTTACTTGGAGGTTGCGGAGAGCTCATAGAGTACATTCC 413
DB 361 AAGGTATGATATCCTTACTTGGAGGTTGCGGAGAGCTCATAGAGTACATTCC 413

DB 361 AAGGTATGATATCCTTACTTGGAGGTTGCGGAGAGCTCATAGAGTACATTCC 413

RESULT 6
US-08-442-144A-54
Sequence 54, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdeda
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: aus1
US-08-442-144A-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
DB 1 ATGAGCACGAATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 60
QY 61 GACGTCAGATTCCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 120
DB 61 GACGTTAAGTTCCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGACAG 120
QY 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
DB 121 GACGCTCGTTGGTGTGCGCGAGAGAGAACTTGAACGGTCCGACGAGGAGT 180
QY 181 AGAGCCCAACTATACCGAAGGTGCGTCAACCAACGGGCGTACCTGAGCTCAACCCGAG 240
DB 181 AGAGCTCAGCCTATACCTTAAGGCGGTGCGGCGGAGGAGGAGGAGGAGGAGGAGGAG 240

Qy 241 TACCCCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 300
Db 241 TACCCCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 300
Qy 301 CNGGCTCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 360
Db 301 CNGGCTCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 360
Qy 361 AAGGTATGATACCTTACTTGGGTTGCGCGAGGTGCTCTGTCCTCC 413
Db 361 AAGGTATGATACCTTACTTGGGTTGCGCGAGGTGCTCTGTCCTCC 413

RESULT 7

US-08-441-970-54
Sequence 54, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: aus1
US-08-441-970-54

Query Match 79.8%; Score 329.6; DB 3; Length 549;
Best Local Similarity 86.9%; Pred. No. 2.9e-88;
Matches 359; Conservative 1; Mismatches 53; Indels 0; Gaps 0;

Qy 1 ATGAGCACATCTTCCAAACCTCAAGAAACCAAGCAACCAACCGTGGCCAG 60
Db 1 ATGAGCACATCTTCCAAACCTCAAGAAACCAAGCAACCAACCGTGGCCAG 60
Qy 61 GACGTCAAGTTCCGCGGTGGCGGTGATCGTTGTGAGTTTACTTTGTCGCGCAGG 120
Db 61 GACGTCAAGTTCCGCGGTGGCGGTGATCGTTGTGAGTTTACTTTGTCGCGCAGG 120

Db 61 GACGTCAAGTTCCGCGGTGGCGGTGATCGTTGTGAGTTTACTTTGTCGCGCAGG 120
Qy 121 GACCTGCTGTTGGTGTGCGCGAGAGGAAACCTCTGAAGGTCAGGCCAGGGAGT 180
Db 121 GACCTGCTGTTGGTGTGCGCGAGAGGAAACCTCTGAAGGTCAGGCCAGGGAGT 180
Qy 181 AGAGCCCAACCTTACCGAAGGTGCGTCAACCAACCGGCGCTACCTGAGGCTCA 240
Db 181 AGAGCCCAACCTTACCGAAGGTGCGTCAACCAACCGGCGCTACCTGAGGCTCA 240
Qy 241 TACCCCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 300
Db 241 TACCCCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 300
Qy 301 CNGGCTCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 360
Db 301 CNGGCTCTGCGCTTTATGGAATGAGGTTGTGCTGGCGAGGTGCTCTGTCCTCC 360
Qy 361 AAGGTATGATACCTTACTTGGGTTGCGCGAGGTGCTCTGTCCTCC 413
Db 361 AAGGTATGATACCTTACTTGGGTTGCGCGAGGTGCTCTGTCCTCC 413

RESULT 8

US-08-441-971-57
Sequence 57, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: 07/07/881,528
FILING DATE: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 121
US-08-441-971-57

Query Match 79.4%; Score 328; DB 3; Length 549;
Best Local Similarity 86.7%; Pred. No. 8.6e-88;
Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGCCACAG 60
DB 1 ATGAGCACAGATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGCCACAG 60
QY 61 GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAATTTACTTTGCCCCGACAG 120
DB 61 GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAATTTACTTTGCCCCGACAG 120
QY 121 GGCCTCGTTGGGTGGTGGCGGCGACGAGAAACCTTGAAACGGTCCGACGCCGAGGT 180
DB 121 GGCCTCGTTGGGTGGTGGCGGCGACGAGAAACCTTGAAACGGTCCGACGCCGAGGT 180
QY 181 AGAGCCCAACCTATACCAAGGTGCGTACCAACCGGCGGTACCTGGGCTCAACCCGAG 240
DB 181 AGAGCCCAACCTATACCAAGGTGCGTACCAACCGGCGGTACCTGGGCTCAACCCGAG 240
QY 241 TACCCCTGGGCTCTTTATAGGAATGAGGTTGTGGCTGGGCAAGGCTCTGTCCCC 300
DB 241 TACCCCTGGGCTCTTTATAGGAATGAGGTTGTGGCTGGGCAAGGCTCTGTCCCC 300
QY 301 CNGGCTCTCGCCCTTAATTGGGGGCGCTAATGACCCCGGNGAGAGTCCCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTTAATTGGGGGCGCTAATGACCCCGGNGAGAGTCCCGCAACCTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGATGAGGTTGGGCTGGGCAAGGCTCAATGATTC 413
DB 361 AAGGTCAATGATACCTTACTTGGGATGAGGTTGGGCTGGGCAAGGCTCAATGATTC 413

RESULT 9
US-08-221-653-57
Sequence 57, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 57:

SEQUENCE CHARACTERISTICS:
LENGTH: 549 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: 121
US-08-221-653-57

Query Match 79.4%; Score 328; DB 3; Length 549;
Best Local Similarity 86.7%; Pred. No. 8.6e-88;
Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGCCACAG 60
DB 1 ATGAGCACAGATCTTAACCTCAAGAAAAACCAACCAACCAACCGTCCGCCACAG 60
QY 61 GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAATTTACTTTGCCCCGACAG 120
DB 61 GACGTCAAGTTCCCGGGTGGCGGTCAATCGTTGGTGAATTTACTTTGCCCCGACAG 120
QY 121 GGCCTCGTTGGGTGGTGGCGGCGACGAGAAACCTTGAAACGGTCCGACGCCGAGGT 180
DB 121 GGCCTCGTTGGGTGGTGGCGGCGACGAGAAACCTTGAAACGGTCCGACGCCGAGGT 180
QY 181 AGAGCCCAACCTATACCAAGGTGCGTACCAACCGGCGGTACCTGGGCTCAACCCGAG 240
DB 181 AGAGCCCAACCTATACCAAGGTGCGTACCAACCGGCGGTACCTGGGCTCAACCCGAG 240
QY 241 TACCCCTGGGCTCTTTATAGGAATGAGGTTGTGGCTGGGCAAGGCTCTGTCCCC 300
DB 241 TACCCCTGGGCTCTTTATAGGAATGAGGTTGTGGCTGGGCAAGGCTCTGTCCCC 300
QY 301 CNGGCTCTCGCCCTTAATTGGGGGCGCTAATGACCCCGGNGAGAGTCCCGCAACCTGGGT 360
DB 301 CNGGCTCTCGCCCTTAATTGGGGGCGCTAATGACCCCGGNGAGAGTCCCGCAACCTGGGT 360
QY 361 AAGGTCAATGATACCTTACTTGGGATGAGGTTGGGCTGGGCAAGGCTCAATGATTC 413
DB 361 AAGGTCAATGATACCTTACTTGGGATGAGGTTGGGCTGGGCAAGGCTCAATGATTC 413

RESULT 10
US-08-442-144A-57
Sequence 57, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
 FILING DATE: APRIL 1, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Doreen Yanko Trujillo
 REGISTRATION NUMBER: 35,719
 REFERENCE/DOCKET NUMBER: CHIR-0121
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 TELEX:
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 549 Nucleotides
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: 121
 US-08-442-144A-57

Query Match 79.4%; Score 328; DB 3; Length 549;
 Best Local Similarity 86.7%; Pred. No. 8.6e-88;
 Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

QY 1 ATGAGCACTTCTTAACTCAAGAAACCAACCAACCAACCGTCCGACAG 60
 DB 1 ATGAGCAGATCTTAACCTCAAGAAACCAACCAACCAACCGTCCGACAG 60
 QY 61 GAGCTCAAGTTCGGGGTGGCGGTGATGATGCTGGTGAATTAATTGTTGCGGACAG 120
 DB 61 GAGCTCAAGTTCGGGGTGGCGGTGATGATGCTGGTGAATTAATTGTTGCGGACAG 120
 QY 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 DB 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 QY 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 DB 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 QY 181 AGAGCCCAACTATACGAGAGGTGCTACCAACCGGCGCTTACCTGAGCTCAACCGGAG 240
 DB 181 AGAGCCCAACTATACGAGAGGTGCTACCAACCGGCGCTTACCTGAGCTCAACCGGAG 240
 QY 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 DB 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 QY 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 DB 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 QY 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 DB 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 QY 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 DB 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 QY 361 AAGGTCAATGATACCTTACTTGGGAGTTGGCGGACCTCATAGATCATTC 413
 DB 361 AAGGTCAATGATACCTTACTTGGGAGTTGGCGGACCTCATAGATCATTC 413

RESULT 11

US-08-441-970-57
 Sequence 57, Application US/08441970

Patent No. 6297370
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF INVENTIONS: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,970
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/881,528
 FILING DATE: 08-MAY-1992
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janluk, Anthony J.
 REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 549 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: 121
 US-08-441-970-57

Query Match 79.4%; Score 328; DB 3; Length 549;
 Best Local Similarity 86.7%; Pred. No. 8.6e-88;
 Matches 358; Conservative 1; Mismatches 54; Indels 0; Gaps 0;

QY 1 ATGAGCACTTCTTAACTCAAGAAACCAACCAACCAACCGTCCGACAG 60
 DB 1 ATGAGCAGATCTTAACCTCAAGAAACCAACCAACCAACCGTCCGACAG 60
 QY 61 GAGCTCAAGTTCGGGGTGGCGGTGATGATGCTGGTGAATTAATTGTTGCGGACAG 120
 DB 61 GAGCTCAAGTTCGGGGTGGCGGTGATGATGCTGGTGAATTAATTGTTGCGGACAG 120
 QY 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 DB 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 QY 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 DB 121 GGCCTGTGTTGGGTGGCGGCGGACGAGGAAACTTTGTAACGCTCCGACCGAGGT 180
 QY 181 AGAGCCCAACTATACGAGAGGTGCTACCAACCGGCGCTTACCTGAGCTCAACCGGAG 240
 DB 181 AGAGCCCAACTATACGAGAGGTGCTACCAACCGGCGCTTACCTGAGCTCAACCGGAG 240
 QY 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 DB 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 QY 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 DB 241 TACCCCTGCGCTCTTTATGGAATGAGGGTGTGGCTGGGAGGGTGGCTCTCTGCCCC 300
 QY 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 DB 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 QY 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 DB 301 CNGGCTCTGCGCTTAATGAGGGCGCTTAATGACCCCGGAGAGGTCCCGAATCTGGGT 360
 QY 361 AAGGTCAATGATACCTTACTTGGGAGTTGGCGGACCTCATAGATCATTC 413
 DB 361 AAGGTCAATGATACCTTACTTGGGAGTTGGCGGACCTCATAGATCATTC 413

RESULT 12

US-08-470-426B-2
 Sequence 2, Application US/08470426B

Patent No. 5856458
 GENERAL INFORMATION:
 APPLICANT: Okamoto, Hiroaki
 TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS AND THEIR
 TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
 TITLE OF INVENTION: HEPATITIS VIRUS

```

: NUMBER OF SEQUENCES: 33
: CORRESPONDENCE ADDRESS:
: ADDRESS: Beveridge, Degrandi, Wellacher & Young,
: ADDRESSEE: L.L.P.
: STREET: 1850 M Street, N.W., Suite 800
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/470,426B
: FILING DATE: 06-JUN-1995
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 2-153402
: FILING DATE: 12-JUN-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: Wellacher, Robert G.
: REGISTRATION NUMBER: 20,531
: REFERENCE/DOCKET NUMBER: 06/59-47083.1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (202) 659-2811
: TELEFAX: (202) 659-1462
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 536 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: unknown
: MOLECULE TYPE: DNA (genomic)
:
: US-08-470-426B-2
:
Query Match          79.0%; Score 326.4; DB 2; Length 536;
Best Local Similarity 86.4%; Pred. No. 2.5e-87;
Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;
:
QY 1 ATGAGCACACTTCTTAAACCTCAAGAAAAACCAACGAAACCAACCGTCCGACAG 60
DB 1 ATGAGCACAGATCCCAAACTCAAGAAAAACCAACGAAACCAACCGTCCGACAG 60
QY 61 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
DB 61 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
QY 121 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
DB 121 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
QY 181 AGACGCAACCTATACCGAAGGTGCTGACCAACGAGGCGTACCTGAGGCTCAAC 240
DB 181 AGACGCAACCTATACCGAAGGTGCTGACCGAGGCGTACCTGAGGCTCAAC 240
QY 241 TACCCCTGAGGCTCTTTATGGAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 TACCCCTGAGGCTCTTTATGGAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 301 CNGGCTCTGCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGAGGAGGAGGAG 360
DB 301 CNGGCTCTGCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGAGGAGGAGGAG 360
QY 361 AAGGTCATGATACCTTACTTNGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 413
DB 361 AAGGTCATGATACCTTACTTNGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 413
:
: RESULT 13
: US-08-470-426B-32
: Sequence 32, Application US/08470426B
```

```

: Patent No. 5856458
: GENERAL INFORMATION:
: APPLICANT: Okamoto, Hiroaki
: APPLICANT: Nakamura, Tetsuo
: TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
: TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
: NUMBER OF SEQUENCES: 33
: CORRESPONDENCE ADDRESS:
: ADDRESS: Beveridge, Degrandi, Wellacher & Young,
: ADDRESSEE: L.L.P.
: STREET: 1850 M Street, N.W., Suite 800
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/470,426B
: FILING DATE: 06-JUN-1995
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 2-153402
: FILING DATE: 12-JUN-1990
: ATTORNEY/AGENT INFORMATION:
: NAME: Wellacher, Robert G.
: REGISTRATION NUMBER: 20,531
: REFERENCE/DOCKET NUMBER: 06/59-47083.1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (202) 659-2811
: TELEFAX: (202) 659-1462
: INFORMATION FOR SEQ ID NO: 32:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 540 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: unknown
: MOLECULE TYPE: DNA (genomic)
:
: US-08-470-426B-32
:
Query Match          79.0%; Score 326.4; DB 2; Length 540;
Best Local Similarity 86.4%; Pred. No. 2.6e-87;
Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;
:
QY 1 ATGAGCACACTTCTTAAACCTCAAGAAAAACCAACGAAACCAACCGTCCGACAG 60
DB 1 ATGAGCACAGATTCCTCAAACTCAAGAAAAACCAACGTAACCAACCGTCCGACAG 60
QY 61 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
DB 61 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 120
QY 121 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
DB 121 GACGTCAGATTCCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
QY 181 AGACGCAACCTATACCGAAGGTGCTGACCAACGAGGCGTACCTGAGGCTCAAC 240
DB 181 AGACGCAACCTATACCGAAGGTGCTGACCGAGGCGTACCTGAGGCTCAAC 240
QY 241 TACCCCTGAGGCTCTTTATGGAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 TACCCCTGAGGCTCTTTATGGAATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 301 CNGGCTCTGCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGAGGAGGAGGAG 360
DB 301 CNGGCTCTGCGCCCTAATTGGGGCCCTAATGACCCCGGAGGAGGAGGAGGAGGAG 360
QY 361 AAGGTCATGATACCTTACTTNGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 413
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Db 361 AAGTCATCGATACCTCAGCGGCTTCCGCGACCTCATCGGCTACATACC 413

RESULT 14

US-08-441-971-53
Sequence 53, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 53:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: us5

US-08-441-971-53

Query Match 79.0%; Score 326.4; DB 3; Length 549;

Best Local Similarity 86.4%; Pred. No. 2.6e-87;

Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;

Db 1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

Db 181 AGAGTCAGCCTATCCCAAGGCGCGCCGACGAGCACTGCGCTCAGCCCGAG 240

Qy 241 TACCCCTGCGCTCTTATGGAATGAGGGTTGCGGCTGCGGAGGCTCTCCGCC 300

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Qy 301 CNGGCTCTCGCCCTTAATGAGGCGCTTAATGAGGCGGAGGAGGCTCCGCAACCTGGGT 360

Db 301 CNGGCTCTCGCCCTTAATGAGGCGCTTAATGAGGCGGAGGAGGCTCCGCAACCTGGGT 360

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Db 361 AAGTCATCGATACCTTACTTGAGGCTTCCGACCTCATAGATCATTC 413

RESULT 15
US-08-221-653-53
Sequence 53, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 53:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: us5

US-08-221-653-53

Query Match 79.0%; Score 326.4; DB 3; Length 549;

Best Local Similarity 86.4%; Pred. No. 2.6e-87;

Matches 357; Conservative 1; Mismatches 55; Indels 0; Gaps 0;

Db 1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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1 ATGAGCACTTCTTAACCTCAAGAAACCAAAACCAACCAACCGTCCGACAG 60

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Db      61  |||||
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Qy      121  |||||
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          GGCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCGAGCGGTGCAACTCGAGGT 180
Qy      181  |||||
          AGACGCCAACCTATACGAGAGGTGCGTACCCAAACGGGCGTACCTGGGCTCAACCGGG 240
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Qy      301  |||||
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Db      301  |||||
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Qy      361  |||||
          AAGTCATCGATACCCCTTACTTANGGTTTGGCGACTCATAGAGTACATTCC 413
Db      361  |||||
          AAGTCATCGATACCCCTTACTTANGGTTTGGCGACTCATAGAGTACATTACC 413

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Search completed: January 11, 2006, 10:56:24
 Job time : 101.008 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 231.737 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-47

Perfect score: 1 atgagcaccttccaacac.....tcactgggacgcgacgacgcg 957

Sequence: 1 atgagcaccttccaacac.....tcactgggacgcgacgacgcg 957

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/1/COMB.seq: *
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3: /cgn2_6/ptodata/1/ina/6A/COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B/COMB.seq: *
5: /cgn2_6/ptodata/1/ina/H/COMB.seq: *
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8: /cgn2_6/ptodata/1/ina/RE/COMB.seq: *
9: /cgn2_6/ptodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 953.6 | 99.6 | 957 | 3 | US-08-836-075A-47 |
| 2 | 685.2 | 71.6 | 957 | 3 | US-08-836-075A-43 |
| 3 | 625.4 | 65.4 | 957 | 3 | US-08-836-075A-41 |
| 4 | 559 | 58.4 | 1037 | 2 | US-08-462-195-1 |
| 5 | 559 | 58.4 | 1037 | 2 | US-08-636-883-1 |
| 6 | 559 | 58.4 | 1037 | 3 | US-09-127-829-1 |
| 7 | 559 | 58.4 | 9472 | 3 | US-08-150-204E-96 |
| 8 | 555.8 | 58.1 | 1167 | 2 | US-08-324-977-9 |
| 9 | 555.8 | 58.1 | 1167 | 2 | US-08-384-616-9 |
| 10 | 555.8 | 58.1 | 1167 | 2 | US-08-904-686A-9 |
| 11 | 555.8 | 58.1 | 1167 | 3 | US-09-315-850-9 |
| 12 | 555.8 | 58.1 | 1499 | 2 | US-08-324-977-3 |
| 13 | 555.8 | 58.1 | 1499 | 2 | US-08-384-616-3 |
| 14 | 555.8 | 58.1 | 1499 | 2 | US-08-904-686A-3 |
| 15 | 555.8 | 58.1 | 1499 | 3 | US-09-315-850-3 |
| 16 | 555.8 | 58.1 | 6039 | 2 | US-08-324-977-11 |
| 17 | 555.8 | 58.1 | 6039 | 2 | US-08-384-616-11 |
| 18 | 555.8 | 58.1 | 6039 | 2 | US-08-904-686A-11 |
| 19 | 555.8 | 58.1 | 6039 | 3 | US-09-315-850-11 |
| 20 | 555.8 | 58.1 | 9030 | 2 | US-08-324-977-13 |
| 21 | 555.8 | 58.1 | 9030 | 2 | US-08-384-616-13 |
| 22 | 555.8 | 58.1 | 9030 | 2 | US-08-904-686A-13 |
| 23 | 555.8 | 58.1 | 9030 | 3 | US-09-315-850-13 |
| 24 | 555.8 | 58.1 | 9365 | 3 | US-09-827-688-7 |

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|----|-------|------|-------|---|-------------------|--------------------|
| 25 | 555.8 | 58.1 | 9416 | 2 | US-08-324-977-1 | Sequence 1, Appli |
| 26 | 555.8 | 58.1 | 9416 | 2 | US-08-384-616-1 | Sequence 1, Appli |
| 27 | 555.8 | 58.1 | 9416 | 3 | US-08-904-686A-1 | Sequence 1, Appli |
| 28 | 555.8 | 58.1 | 9416 | 3 | US-09-315-850-1 | Sequence 1, Appli |
| 29 | 555.8 | 58.1 | 9416 | 3 | US-08-823-895A-27 | Sequence 2, Appli |
| 30 | 554.2 | 57.9 | 1539 | 2 | US-08-470-426B-16 | Sequence 16, Appli |
| 31 | 554.2 | 57.9 | 1863 | 2 | US-08-470-426B-13 | Sequence 13, Appli |
| 32 | 554.2 | 57.9 | 12980 | 3 | US-08-811-566-5 | Sequence 5, Appli |
| 33 | 554.2 | 57.9 | 12980 | 3 | US-09-034-756-5 | Sequence 5, Appli |
| 34 | 552.6 | 57.7 | 9599 | 3 | US-09-014-416-2 | Sequence 2, Appli |
| 35 | 552.6 | 57.7 | 9646 | 3 | US-08-811-566-1 | Sequence 1, Appli |
| 36 | 552.6 | 57.7 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appli |
| 37 | 552.6 | 57.7 | 10803 | 3 | US-10-259-275-17 | Sequence 17, Appli |
| 38 | 551 | 57.6 | 1539 | 2 | US-08-470-426B-17 | Sequence 17, Appli |
| 39 | 551 | 57.6 | 1863 | 2 | US-08-470-426B-14 | Sequence 14, Appli |
| 40 | 551 | 57.6 | 2433 | 3 | US-08-612-973-49 | Sequence 49, Appli |
| 41 | 551 | 57.6 | 2433 | 3 | US-08-927-597-49 | Sequence 49, Appli |
| 42 | 551 | 57.6 | 2433 | 3 | US-08-928-757-49 | Sequence 49, Appli |
| 43 | 551 | 57.6 | 9416 | 3 | US-08-823-895A-26 | Sequence 26, Appli |
| 44 | 551 | 57.6 | 9416 | 3 | US-10-104-966-13 | Sequence 13, Appli |
| 45 | 551 | 57.6 | 9416 | 3 | US-09-929-955-13 | Sequence 13, Appli |

ALIGNMENTS

RESULT 1
US-08-836-075A-47
Sequence 47, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKER
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 957 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-47

Query Match 99.6%; Score 953.6; DB 3; Length 957;
Best Local Similarity 100.0%; Pred. No. 2.5e-247;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 GATGTCAAGTTCGGGGGGGGGGGTGAGTTCGTTGGTGAAGTCTAATTGTTACCGGCAAG 120
QY 121 GGGCCACGTTGGGTGTGGCGGCGGACGAGAAAGACTTGGAAACGGTCCGAGGCCAGAGT 180
DB 121 GGGCCACGTTGGGTGTGGCGGCGGACGAGAAAGACTTGGAAACGGTCCGAGGCCAGAGT 180
QY 181 AGGGGCCAACCAATACCAAGGTGGCGGACCAAGGCCGAACTGGGGCTCAGGCTGGG 240
DB 181 AGGGGCCAACCAATACCAAGGTGGCGGACCAAGGCCGAACTGGGGCTCAGGCTGGG 240
QY 241 TACCCCTGGCCCCCTTTATGGGAAAGAGGGCTGGCGCTGGGGTGGCTCTTGTCCCCC 300
DB 241 TACCCCTGGCCCCCTTTATGGGAAAGAGGGCTGGCGCTGGGGTGGCTCTTGTCCCCC 300
QY 301 CGTGGCTCTCGCCCGGAGCTGGGGGCCAATGACCCCGGAGAGGTCCCGCAACTGGGT 360
DB 301 CGTGGCTCTCGCCCGGAGCTGGGGGCCAATGACCCCGGAGAGGTCCCGCAACTGGGT 360
QY 361 AAGGTCATGACACCCCTCACTTGGGGCTTGGCGGACCTCATGAGTATCATCCGTGGT 420
DB 361 AAGGTCATGACACCCCTCACTTGGGGCTTGGCGGACCTCATGAGTATCATCCGTGGT 420
QY 421 GGGCGCCCCCTTGGAGGGCTTGGCGGAGCTGNAACATGGTGTCAAGGCGCATGAGAGC 480
DB 421 GGGCGCCCCCTTGGAGGGCTTGGCGGAGCTGNAACATGGTGTCAAGGCGCATGAGAGC 480
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DB 541 CTTCTCTGTGCTACCAAGCGCTGCTCCGCACTAACTATGCTAACTATGCTAACTATGCT 600
QY 601 TATCATCTAACCAATGACCTGCGCCCAATAGACAGCAATTTGTATGAGCGCAATGGCATG 660
DB 601 TATCATCTAACCAATGACCTGCGCCCAATAGACAGCAATTTGTATGAGCGCAATGGCATG 660
QY 661 CTGCACTCTCCGGGGTGGGTGCTCCCTGCGTGAAGACCGGCACTTGAACCAAGTGGGCTG 720
DB 661 CTGCACTCTCCGGGGTGGGTGCTCCCTGCGTGAAGACCGGCACTTGAACCAAGTGGGCTG 720
QY 721 TCGGCTCTCCCGGACATTTGGCGGTGAGAAATGCGTGGTCCATGAGGGGTGTCCGCAAG 780
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QY 781 CACGTGACCTCTTGGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
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QY 841 TGGCGTGGGCTCTTCTGCTGGTGGGAGTGTTCACGTTTCAAGCCAGAGATGATAGATC 900
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QY 901 GCCCAGGACTGCACTGTTCACTATGAGGCGCACTCACTGGGCACTGGGCGGAGTGGG 957
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* RESULT 2

US-08-836-075A-43
; Sequence 43; Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 43:

SEQUENCE CHARACTERISTICS:

LENGTH: 957 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-836-075A-43

Query Match 71.6%; Score 685.2; DB 3; Length 957;
Best Local Similarity 81.6%; Pred. No. 6.4e-175;
Matches 780; Conservative 3; Mismatches 173; Indels 0; Gaps 0;

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RESULT 3
US-08-836-075A-41
Sequence 41, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSER: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155

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; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 957 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
;
US-08-836-075A-41

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Query Match 65.4%; Score 625.4; DB 3; Length 957;
Best Local Similarity 78.0%; Pred. No. 8,7e-159;
Matches 746; Conservative 1; Mismatches 209; Indels 0; Gaps 0;

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Oy 1 ATGAGCACTTCCAAATCCCAAGAAACCAAGAAACCAACCGTCCGCAATG 60
Db 1 ATGAGCACTTCCAAATCCCAAGAAACCAAGAAACCAAGAAATCAACCGTCCGCAATG 60
Oy 61 GATGTCAAGTTCCCGGCGCGGCTGATGATGTTGGTGAAGTCTTGTATACCGGAGG 120
Db 61 GACGTCAAGTTCCCGGCGCGGCTGATGATGTTGGTGAAGTCTTGTATACCGGAGG 120
Oy 121 GGGCCAGTTGGGTGTGTGCGGCGAGCAAGAAAGCTTGTGGAAGGTCCAGGCCAGAGT 180
Db 121 GGGCCAGTTGGGTGTGTGCGGCGAGCAAGAAAGCTTGTGGAAGGTCCAGGCCAGAGT 180
Oy 181 AGGGGCCAACAATACCAAGTGTGCGGCAAGCAACCAAGCCGGAACCTGGGCTCAGCCGTGGG 240
Db 181 AGGGGCCAACAATACCAAGTGTGCGGCAAGCAACCAAGCCGGAACCTGGGCTCAGCCGTGGG 240
Oy 241 TACCCCTGCGCCCTTATGAGGAACGAGGCTGCGGCTGGGCGGAGTCTTGTCTCCCGC 300
Db 241 TACCCCTGCGCCCTTATGAGGAACGAGGCTGCGGCTGGGCGGAGTCTTGTCTCCCGC 300
Oy 301 CGTGACTCTGCGCCGGAATGAGGAGCCCAATGACCCCGGAGAGTCCCGCAACTGGGT 360
Db 301 CGCGGCTCTGCTTAATTTGGGGCCCAAGCAAGCCCGGAGAGTCCCGCAACTGGGT 360
Oy 361 AAGTCATGACACCTTCACTTGGCGCTTGGCCGACTCATAGAGTAATCCCTGTGTT 420
Db 361 AAGTCATGACACCTTCACTTGGCGCTTGGCCGACTCATAGAGTAATCCCTGTGTT 420
Oy 421 GGGCCCCCTTGGAGGGGTTGGCGGCAATCTGNAATGATGAGGAGGCAATGAGAC 480
Db 421 GGGAGGCGGCTTGGAGGGGTTGGCGGCAATCTGNAATGATGAGGAGGCAATGAGAC 480
Oy 481 GGGATAAATAATGACAGAGGAATCTTCTGGTGTCTCTTCTATCTTCCCTTGGCA 540
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Oy 541 CTTCTCTGTCGCTTACCAACGCTGCTCCGCACTAACTATGCTAACAGTCTGGGCTG 600
Db 541 CTTGTATCTGCTTACCAACGCTGCTCCGCACTAACTATGCTAACAGTCTGGGATC 600
Oy 601 TATCATTAACCAATGACTGCGCCCAATAGCAGCATTTGTATGAGGAGGCAATGATC 660
Db 601 TACCATCTACCAATGACTGCTGGAACAAGACATCTTTTGAAGGGAGACATATATA 660
Oy 661 CTGCATCTCCGGGTGCTGCTCCGCTGAGAAAGCCGCAACCTGACCAAGTGTGGCTG 720
Db 661 CTGCATCTCCAGGTTGTGTCCCATGTATCAAGGCGGGAATGATGATGATGTGGCTC 720

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Db 917 GTACAGACTGCATCTCATCTATCCGGCCACGATATCAGGCCATCGATAGC 972

RESULT 5

US-08-636-883-1

; Sequence 1, Application US/08636883
; Patent No. 5830691

GENERAL INFORMATION:

APPLICANT: MIYAMURA, TATSUO

APPLICANT: SAITO, IZUMU

APPLICANT: MATSUTRA, YOSHIHARU

APPLICANT: HONDA, YOSHIKAZU

TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF

TITLE OF INVENTION: HEPATITIS C VIRUS

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS: 9

ADDRESSER: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,

ADDRESSER: P.C.

STREET: 1755 S. Jefferson Davis Highway, Suite 400

CITY: Arlington

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/636,883

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/446,303

FILING DATE:

APPLICATION NUMBER: US 08/074,584

FILING DATE: 11-JUN-1993

APPLICATION NUMBER: JP 152487/1992

FILING DATE: 11-JUN-1992

ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5830691man F.

REGISTRATION NUMBER: 24,618

REFERENCE/DOCKET NUMBER: 4169-003-0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1037 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Hepatitis C virus

IMMEDIATE SOURCE:

CLONE: pUC10

FEATURE:

NAME/KEY: CDS

LOCATION: 17..1036

US-08-636-883-1

Query Match 58.4%; Score 559; DB 2; Length 1037;

Best Local Similarity 73.8%; Pred. No. 7.3e-141;

Matches 706; Conservative 1; Mismatches 249; Indels 0; Gaps 0;

QY 1 ATGACGACCTTCCAAAACCCAAAGAAAAGAAACAAACCAACCGTGGCCCAATG 60
DB 17 ATGACGACAAATCTTAACCCCAAGAAAGAAACCAACCAACCAACCGTGGCCCAAG 76

QY 61 GATGTCAAGTCCCGGCGCGGCTGACATGCTGTGAGTCTAATTGTAACCGCGAG 120

DB 77 GACGTAAAGTCCCGGCGGCTGATGATCGTGGAGTTACTTGTGCGCGAGG 136

QY 121 GCGCCAGTTTGGGTGGCGGCGGAGAAAGCTTCCGAAACGGTCCCAAGAGCT 180

DB 137 GCGCCAGTTTGGGTGGCGGAGAAAGCTTCCGAAACGGTCCCAAGAGCT 196

QY 181 AGCGCCCAACCAATACCAAGAGTGGCGAGAACCAAGGAGCGCAACTGGGCTCAGCTGGG 240

DB 197 AGCGCAACCACTATCCCAAGAGTGGCGGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 256

QY 241 TACCCCTGCGCCCTTATAGGAG 300

DB 257 TATCCTTGGCGCCCTTATAGGAG 316

QY 301 GTGGCTCTGCGCGGAG 360

DB 317 GCGGCTCTGCGGCTTATAGGAG 376

QY 361 AAGGTCAATCGACAGGCTCACTGGGCTTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420

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QY 421 GCGCGCCCGCTTGGAG 480

DB 437 GCGCGCCCGCTTGGAG 496

QY 481 GGGATTAATGCAAG 540

DB 497 GGGATTAATGCAAG 556

QY 541 CTCTCTCGGCTTGGAG 600

DB 557 CTCTCTCGGCTTGGAG 616

QY 601 TATCATCTAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660

DB 617 TATCATCTAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 676

QY 661 CTGATCTCCCGGCTTGGAG 720

DB 677 ATG 736

QY 721 TGGGCTTCCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780

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QY 781 CACGTGACCTCTTGGAG 840

DB 797 CACGTGACCTCTTGGAG 856

QY 841 TGGGCTTCCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 900

DB 857 TGGGCTTCCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 916

QY 901 GCCAGAGCTGCACTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 956

DB 917 GTACAGACTGCATCTCATCTATCCGGCCACGATATCAGGCCATCGATAGC 972

RESULT 6

US-09-127-829-1

; Sequence 1, Application US/09127829

; Patent No. 6063904

; GENERAL INFORMATION:

APPLICANT: MIYAMURA, TATSUO

APPLICANT: SAITO, IZUMU

APPLICANT: MATSUTRA, YOSHIHARU

APPLICANT: HONDA, YOSHIKAZU

TITLE OF INVENTION: METHOD FOR PRODUCING ECTOPROTEIN OF

TITLE OF INVENTION: HEPATITIS C VIRUS

NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C. Jefferson Davis Highway, Suite 400
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127,829
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/446,303
FILING DATE:
APPLICATION NUMBER: US 08/074,584
FILING DATE: 11-JUN-1993
APPLICATION NUMBER: JP 152487/1992
FILING DATE: 11-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 6063904man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 4169-003-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1037 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Hepatitis C virus
IMMEDIATE SOURCE:
CLONE: pUC010
FEATURE:
NAME/KEY: CDS
LOCATION: 17..1036
US-09-127-829-1

Query Match 58.4%; Score 559; DB 3; Length 1037;
Best Local Similarity 73.8%; Pred. No. 7,3e-141;
Matches 706; Conservative 1; Mismatches 249; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCCAAAACCCCAAGAAAACCAAAAGAAACACAAACCGTGCCCAATG 60
DB 17 ATGAGCACAAATCTTAACCCCAAGAAAACCAAAAGAAACACCAACCGTGCCCAATG 76
QY 61 GATGTCAAGTTCCGCGCGCGCGCGTCAATCGTTGTGAGTCTACTTGTTCACGCGCAGG 120
DB 77 GACGTTAAGTTCCGCGCGCGCGGTGTCAGATCGTGGTGAAGTTACTTGTGCGCGCAGG 136
QY 121 GGCCTACGTTGGGTGTGGCGCCGACGAGGAAGACTTGGGAACGGTCCAGGCCAGAGAT 180
DB 137 GGCCTACGTTGGGTGTGGCGCCGACGAGGAAGACTTCCGAGCGGTCCCAACTGTGGA 196
QY 181 AGGCGCAACCAATACCCCAAGGTGGCCGAGACCAAGCCGAACCTGGGCTCAGGCTGGG 240
DB 197 AGGCGCAACCAATACCCCAAGGCTGGCGCCCGGAGGCAAGACCTGGGCTCAGGCTGGG 256
QY 241 TACCCCTGGCCCTTTTATGGAACGAGGCTGGGCTGGGCGGGGTGCTTTGTCTCCCTCC 300
DB 257 TATCTTGCCCTCTATGGAATGAGGCTTGGGGTGGGCAAGATGGCTCTGTACACC 316

QY 301 CGTGCTCTGCGCCGAGACTGGGAGNCCCATATGACCCCGGAGAGTCCCGCAACTGGGT 360
DB 317 CGCGCTCTGCGGCTTAATGTGGGCGCTTAATGACCCCGGAGTGGTGGCTTAATTTGGGT 376
QY 361 AAGGTATGACACACCTCACTTGGGCTTGGCCGACTCATGAGATACATCTCTGTGCTT 420
DB 377 AAGGTATGACATACCTTAATGATGGGCTTGGCCGACTCATGAGGATACATCTCTGTGCT 436
QY 421 GCGGCCCCCTTGGAGGCGTGGCGGGAAGTGGNAATGGTGCAGGGGCATCGAGAGAC 480
DB 437 GCGGCCCCCTTGGAGGCGCTGGCGAGGCGCTGGCAATGATGTCGGGATTCGAGAGAC 496
QY 481 GGGATAACTATGACAGAGGAATCTTCTGTTGCTCTTCTCATCTTTCMCTTGGCA 540
DB 497 GCGGTGAATATGACAGAGGAATTTCCCGGTTGCTCTTCTCATCTTCTTGTAGCT 556
QY 541 CTCTCTGTGCTCACACGCTGCTCCGCACTAACTATGCTAACAAAGTGGGCTG 600
DB 557 CTGCTGTCTGTGTTGACCATCCAGCTTCGCTTATGAGTGGCAAGTGTCCGGGATA 616
QY 601 TATCATCTAACCAATGACTGCGCCCAATAGACATTTGTATGAGGCAATGATGATATC 660
DB 617 TACCATGTCAAAACGACTGTCTCAACTCAAGCATTTGTATGAGGCGGAGATGATC 676
QY 661 CTGCATCTCCCGGTTGGTGTCCCTGCGTGAAGACCGGCAACTGACCAAGTGTGGCTG 720
DB 677 ATGCATGCTCCCGGTTGGTGTCCCTGCGTGAAGACCAATTTCTCCGTTGTGGGTA 736
QY 721 TCGGCTCCCGGACATTTGGCGGTGACAAATGCTGTGTCATCAGGGGTGTCGCGAG 780
DB 737 GCGCTCACTCCACGCTCGGCGGACAGGAATGCCAGCTCCCACTACGACATTCAGAGC 796
QY 781 CAGGTGACCTCTGTGGGTGTGCTGCGTTCGCTCTGCAATGTAAGTGGGAGCTTA 840
DB 797 CAGGTGACCTCTGTGGGTGTGCTGCGTTCGCTCTGCAATGTAAGTGGGAGCTTC 856
QY 841 TCGGCTGCGCTCTTCTGTGGGCAATGTTTCACTGTCAGACCCAGATGATGAGATC 900
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QY 901 GCCCAGACCTGCAACTGTTCATCTATGACGGCCACATCACTGGGACCGGATGCG 956
DB 917 GTACAGACCTGCAACTGTCTCATCTATCCGGCACGATACAGGCATCTGATGCG 972

RESULT 7
US-08-150-204B-96
Sequence 96, Application US/08150204E
Patent No. 6538126
GENERAL INFORMATION:
APPLICANT: CHO, Joong Myung
LEE, Yong Beom
PARK, Young Woo
LIM, Kook Jin
CHOI, Deog Young
KIM, Chun Hyung
SO, Hong Seob
YANG, Jae Young
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows


```

NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0357
TELEFAX: (202) 659-2930
TELEX: 440142
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1167 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-324-977-9

Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

QY      1 ATGACGACACTTCCAAAACCCCAAGAAAACCAAAAGAACAAACCGTCCCAATG 60
DB      1 ATGACGACGAATCTTAAACCTCAAGAAAACCAAAACGTAACACCAACCGCCGACAG 60
QY      61 GATGTCAGATTCGGGGGGGGGGGCGATCGTGGTGGAGTCTACTTTGTAACGGGCAAG 120
DB      61 GACGTCAGATTCGGGGGGGGGGGCGATCGTGGTGGAGTCTACTTTGTCGGGCAAG 120
QY      121 GGGCCACGTTTGGGTGTGGCGCGACGAGAGACTTGGAGCGGTCCAGGCGCAGAGT 180
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QY      181 AGGGCCCAACCAATACCCAGAGTGGCGCAAGAACCAAGCCGAACTGGGCTCAGCTTGG 240
DB      181 AGGGCCCAACCAATACCCAGAGTGGCGCGCAAGAACCAAGCCGAACTGGGCTCAGCGCG 240
QY      241 TACCCCTGGGCCCCCTTATGGGAGAGAGGCGTGGCGGGGGGCGTCTGTCGCCCC 300
DB      241 TACCCCTGGGCCCCCTTATGGGAGAGAGGCGTGGCGGGGGGCGTCTGTCGCCCC 300
QY      301 CGTGGCTCTCGCCCGGACTGGGGAGCCCAATGACCCCGGNGAGAGTCCCGCAACTGGGT 360
DB      301 CGCGGCTCCCGGCTAGTTGGGGCCCGACGAGACCCCGGCGTAAAGTCCGCTAATTGGGT 360
QY      361 AAGGTATATGACACCTTCACTTGGCGCTTCCGCACTTATGAGTACATCCCTGTCTT 420
DB      361 AAGGTATATGATACCTTCACTGCGGCTTCCGCACTTATGAGTACATCCCTGTCTT 420
QY      421 GGGGGCCCCCTTGGAGGGGCTTGGGGGGAACGTGNACATGNTGTCAGGGGCAATGAGAG 480
DB      421 GGGGGCCCCCTTGGAGGGGCGCTGCGAGGGGCTTGGGACATGAGTGGTCCGGGTTTGGAGAG 480
QY      481 GGGATTAACCTATGACACAGGGAATCTTCTGGTGTGCTTTCTTATCTTCCMTGGCA 540
DB      481 GGGGTAACCTATGACACAGGGAATCTGCGCGGTTGCTTTTCTATCTTCTCTTGGGT 540
QY      541 CTTCCTCTGTGCTTCAACAGCGCTGCTCCGACATTAACCTATGCTAAGTCTTGGGCTG 600
DB      541 CTGCTGTCTGTGCTTCAACAGCGCTTCCGCTTACGAAGTCAACAACGTGTCCGGGATA 600
QY      601 TATCATCTAATCAATGACGCGCCCAATAGCAGCATTTGTATAGAGCGCAATGGCATGATC 660
DB      601 TATCATCTAATCAATGACGAGCTGTCAACGCAACATTGTGTATAGAGCGCAAGCTTTGATC 660
QY      661 CTGCATCTCTCCGGGTTGCTCCCTGCGTGAAGACCGGCAACTGACCAAGTGTGGCTG 720

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DB      661 ATGCATCTCTGGGTGCGTGCCCTGCGTTCCGGAGGCAACTCTCCCTGCTGGGTA 720
QY      721 TCGGCTTCCCGACATTTGGGGGTGCGAATATCGTGGTGTTCATCAGAGGTATCCGGAG 780
DB      721 GCGCTCACTCCCAAGCTCGAGCGAGGACGTAACCATCTCCACACGACGATACGAGCG 780
QY      781 CAGGTGACCTCTTGGTGGGTGTGCTGCGTTCCTCTCCATATGATAGTGGGCACTTA 840
DB      781 CAGCTCATCTGCTCGTGTGGGGCGGCTTTCTGTTCCGCTATGATAGTGGGCACTTC 840
QY      841 TCGGTGGGCTTTTCTGTTGGGCGAGTTGTCAGTTCAAGACCGAGATGATGATC 900
DB      841 TCGGATCTGTTTCTGTTCTCTCAAGCTGTTCACCTTCTCGCTCCCGCAATGTACA 900
QY      901 GCCGAGACTGCAACTTTCATCTATGACGGCCACATCACTGGGACCGGATGGC 956
DB      901 TTACAGGACTGTAACTGCTCAATTTATCCGGCCATGTGTGGGTACCGTATGGC 956

RESULT 9
US-08-384-616--9
; Sequence 9, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroko
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chiabato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSER: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 9:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..1167
; OTHER INFORMATION: /note: "sequence = 333 - 1499 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1167
; US-08-384-616-9

Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

QY 1 ATGAGCACAACCTCCAAAACCCCAAGAAAACCAAAAGAAACAAACCAACCCGTCCTCATG 60
DB 1 ATGAGCACAACCTCCAAAACCTCCAAAAGAAAACCAAAAGAAACCAACCAACCCGTCCTCATG 60
QY 61 GATGTCAAGTTCCCGGCGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTTCACCGGCAGG 120
DB 61 GATGTCAAGTTCCCGGCGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTTCACCGGCAGG 120
QY 61 GACGTCAAGTTCCCGGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTTCACCGGCAGG 120
DB 61 GACGTCAAGTTCCCGGCGCGGTGAGATCGTTGGTGAAGTCTACTTGTTCACCGGCAGG 120
QY 121 GGGCCACGTTGGGTGTGGCGCGGACGAGAAAGACTTGGAAAGGTCCCGAGGCCAGAGT 180
DB 121 GGGCCACGTTGGGTGTGGCGCGGACGAGAAAGACTTGGAAAGGTCCCGAGGCCAGAGT 180
QY 121 GGGCCACGTTGGGTGTGGCGCGGACGAGAAAGACTTGGAAAGGTCCCGAGGCCAGAGT 180
DB 121 GGGCCACGTTGGGTGTGGCGCGGACGAGAAAGACTTGGAAAGGTCCCGAGGCCAGAGT 180
QY 181 AGGGGCGCAACCAATACCAAGGTGGCCAGAACCAAGCCGAACCTGGGCTCAGCTGG 240
DB 181 AGGGGCGCAACCAATACCAAGGTGGCCAGAACCAAGCCGAACCTGGGCTCAGCTGG 240
QY 181 AGGGGCGCAACCAATACCAAGGTGGCCAGAACCAAGCCGAACCTGGGCTCAGCTGG 240
DB 181 AGGGGCGCAACCAATACCAAGGTGGCCAGAACCAAGCCGAACCTGGGCTCAGCTGG 240
QY 241 TACCCCTGAGCCCTTATATGGAACGAGGCTGCGGCTGGGCGGCTGCTTGTGCCCC 300
DB 241 TACCCCTGAGCCCTTATATGGAACGAGGCTGCGGCTGGGCGGCTGCTTGTGCCCC 300
QY 241 TACCCCTGAGCCCTTATATGGAACGAGGCTGCGGCTGGGCGGCTGCTTGTGCCCC 300
DB 241 TACCCCTGAGCCCTTATATGGAACGAGGCTGCGGCTGGGCGGCTGCTTGTGCCCC 300
QY 301 CGTGCTCTCGCCCGGACCTGGGAGCCCAATGACCCCGGAGGAGTCCCGCAACTGGGT 360
DB 301 CGTGCTCTCGCCCGGACCTGGGAGCCCAATGACCCCGGAGGAGTCCCGCAACTGGGT 360
QY 301 CGTGCTCTCGCCCGGACCTGGGAGCCCAATGACCCCGGAGGAGTCCCGCAACTGGGT 360
DB 301 CGTGCTCTCGCCCGGACCTGGGAGCCCAATGACCCCGGAGGAGTCCCGCAACTGGGT 360
QY 361 AAGGTCAATGACACCCCTCATCTGGGCTTCCGCACTCATAGGAATATACCTCTGCT 420
DB 361 AAGGTCAATGACACCCCTCATCTGGGCTTCCGCACTCATAGGAATATACCTCTGCT 420
QY 361 AAGGTCAATGACACCCCTCATCTGGGCTTCCGCACTCATAGGAATATACCTCTGCT 420
DB 361 AAGGTCAATGACACCCCTCATCTGGGCTTCCGCACTCATAGGAATATACCTCTGCT 420
QY 421 GGGCGCCCTTGAAGGCGTTGCGGCGGAATGAGAACATGATGTCAGGGCCATCGAGGAC 480
DB 421 GGGCGCCCTTGAAGGCGTTGCGGCGGAATGAGAACATGATGTCAGGGCCATCGAGGAC 480
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DB 421 GGGCGCCCTTGAAGGCGTTGCGGCGGAATGAGAACATGATGTCAGGGCCATCGAGGAC 480
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DB 601 TATCATCTAACCAATGATGTCGCCCAATAGCAGCATTTGTATGAGGCAATGGCATGATC 660
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DB 661 ATGCACTACTCCGAGTGGCTGCGCTGCGCTTGGGAAAGCAACTCTCCCGCTGCTGGGTA 720
QY 721 TCGGCTCCCGGACATGTCGGGTGAGAAATGCTGCTCATATAGGAGGTCTCCGAG 780
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DB 721 GGGCTCACTCCCGAGCTCGCAGCAGGAAAGTCAATCTCCCAACGACATAGAGAGC 780
QY 781 CACGTGACACTCTTGTGGTGGTGTCTGCTGCTCTGCTCATAGTATAGTGGGCACTTA 840
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DB 841 TCGGCTGGGCTCTTCTTCGTTGGGACAGTTGTTACGTTTCAAGCCAGAGTATAGAGATC 900
QY 901 GCCCAGACCTGCACTGTTCCATCTATGACAGCCACATCATCTGGGACACCGATGGC 956
DB 901 TTAACAGACTGTAATGCTGTAATTTATCCGGCCATGCTGTGGGATCACCGATATGGC 956

RESULT 10
US-08-904-686A-9
; Sequence 9, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Armstrong, Westernman, Hattori, Mclelland &
; ADDRESSER: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna from genomic RNA
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1167
OTHER INFORMATION: /note: "sequence = 333 - 1499 of
OTHER INFORMATION: SEQ ID NO: 1"
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1167
US-08-904-686A-9

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Query Match      58.1%; Score 555.8; DB 2; Length 1167;
Best Local Similarity 73.6%; Pred. No. 5,6e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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DB 841 TGGGATCTGTTTCTGCTGTCTCACTGTTACCTTTCGCTGCGCGGACATGATGACA 900
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DB 901 TTACAGACTGTACTGCTCATATTATCCGGGCATGTTGGGTACCGTATGCG 956

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RESULT 11

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US-09-315-850-9
; Sequence 9, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mcleland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
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; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686
; FILING DATE: 01-AUG-1997
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcleland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1167 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

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FEATURE:
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; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
; OTHER INFORMATION: ID NO: 1"
; US-08-324-977-3

Query Match 58.1%; Score 555.8; DB 2; Length 1499;
Best Local Similarity 73.6%; Pred. No. 6.1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY 121 GAGCCAGCTTGGGGTGGGGGGGCGGCGAGAGAAAGAACTTCGAAACGGTCCAGGCGCAGAGT 180
DB 453 GAGCCAGCTTGGGGTGGGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 512
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QY 241 TACCCCTGGGCGGCTTATAGGAGACAGAGGGCTGCGGCTGGGCGGGGTGGCTCTGTCCCCC 300
DB 573 TACCCCTGGGCGGCTTATAGGAGATAGAGGGCTTAAAGGGTGGGCGAGATGGCTCTGTGACCC 632
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DB 693 AAGGTCAATGATACCTCACTGAGGCTTCCGCGAATCTATGAGGATATATCTGTGCTT 752
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RESULT 13
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; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
; OTHER INFORMATION: ID NO: 1"
; US-08-384-616-3
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Query Match 58.1%; Score 555.8; DB 2; Length 1499;

Best Local Similarity 73.6%; Pred. No. 6.1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY 61 GATGTCAGTTCCCGGGGCGGCGGTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 120
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Db 573 TACCCCTGGCCCTTTATGAGAACAGAGGCTTAGGCTGGGCGAGATGCTCTGTCAACC 632
QY 301 CGTGGCTTCGCGCGGACTGGGAGNCCCAATGACCCCGAGAGAGTCCCGCAACCTGGGT 360
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RESULT 14
US-08-904-686A-3
; Sequence 3, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:

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APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKU, Ieao
APPLICANT: MORI, Chiato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
ADDRESS: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-08-904-686A-3

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Query Match 58.1%; Score 555.8; DB 2; Length 1499;
Best Local Similarity 73.6%; Pred. No. 6.1e-140;
Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY      1 ATGAGCACACTTCGAAAAACCCCAAGAAAAACAACAAACCGTCGCCCAATG 60
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QY      61 GATGTCAGATTCGCGGCGCGGCTCAATCGTTGATGATCTTGTAAACCGCGCAGG 120
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QY      121 GGGCCACGTTGGGATGCGCGGCGGCAAGAAAGATTGGAAACGCTCCAGGCAAGAGT 180
Db      453 GGGCCACGATGGGATGCGCGGCGGCAAGAAAGATTGGAAACGCTCCAGGCAAGAGT 512
QY      181 AGGCGCAACCAATACCAAGATGCGCGGCAAGCAACCAAGCGCAACCTGAGCTGAG 240
Db      513 AGGCGCAACCAATACCAAGATGCGCGGCGGCAAGCAACCAAGCGCTGAGCGGCGG 572
QY      241 TACCCCTGCGGCTTTATAGGAAAGAGGCTGCGGCTGCGGCGGCTGCTGTCCTCC 300
Db      573 TACCCCTGCGGCTTTATAGGAAAGAGGCTGAGGCTGAGGAGATGCTGCTGTCACCC 632
QY      301 CGTGCTCTCGCGCGGCACTGGGAGCCCAATGACCCCGGAGAGGTCGCGCACTGGGT 360
Db      633 CGCGCTCTCGCGCTAATGGGAGCCCAAGAGCCCGGAGGTCGCGCAATTTGGGT 692
QY      361 AAGGTCATGACACCTCTGCTGCGGCTTCCGCGCACTCATAGAGTATGCTGCTGCT 420
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QY      421 GAGCGCGGCTTGGAGGCGTTGCGGCGGAACTGNAACATGCTGTCAGGCGCAATGAG 480
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QY      481 GGGATAAACTATGCAACAGGGAATCTCTGCTGCTCTCTATCTCTCTCTCTCTCTGCA 540
Db      813 GAGCGGAATCTATGCAACAGGGAATCTGCGGCTGCTCTCTCTCTCTCTCTCTCTGCT 872
QY      541 CTCTCTGCTGCTCACCACGCTGCTCTCTGCACTAACTATGCTAAGCTGCGGCTG 600
Db      873 CTGCTGCTCTGCTCACCACGCTGCTCTCTGCTTACGAAGTCAACAAGTCTGCGGATA 932
QY      601 TATCATCTAACCATGATCTGCGGCAATGACAGCATTTGATGAGGCAATGGCATGATC 660
Db      933 TATCATGTCAGGAAGCATGCTGCTCCAAAGCATTTGATGAGGCAAGGCACTGATC 992
QY      661 CTGATCTCCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Db      993 ATGCACTCTCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1052
QY      721 TCGGCTCTCCGCACTTGGCGGCTGCAATGCGTGTGCTGCTGCTGCTGCTGCTGCTG 780
Db      1053 GCGCTCACTCCACGCTGCGGCAAGCAAGTCAATCCCAACCAAGCAATGAGAGC 1112
QY      781 CACGTGACCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
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QY      841 TCGCGTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900
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QY      901 GCCCAGACGTGCACTGTTCCATCTATGAGGCGCAATCACTAGGCGACCGAGTGC 956
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RESULT 15
 us-09-315-850-3
 ; Sequence 3, Application US/09315850
 ; Patent No. 6217872

GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Isao
 ; APPLICANT: MORI, Chisato

```

APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westernman, Hattori, Mclelland &
ADDRESSEE: Naughton
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="Sequence = 1 - 1499 of SEQ
ID NO: 1"

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us-09-315-850-3

Query Match 58.1%; Score 555.8; DB 3; Length 1499;
 Best Local Similarity 73.6%; Pred. No. 6.1e-140;
 Matches 704; Conservative 1; Mismatches 251; Indels 0; Gaps 0;

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QY 121 GGGCCACGTTTGGTGTGCGCGGACGAGGAAGACTTCGGAACGGTCCAGGCGCAGAGGT 180
Db 453 GGGCCACAGTTTGGTGTGCGCGGACGAGGAAGACTTCGGAACGGTCCAGGCGCAGAGGT 512
QY 181 AGGGGCGCAACCAATACCAAGGTGCGCAAGAACCAAGGCGAAGCTTGGGCTCAGCCTGAG 240
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Db 573 TACCCCTGGCTCTTATGAGCAATGAGGCTTGAAGGTGGGCAAGATGGCTCTCTGTCACCC 632
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Db 633 CGCGGCTCCCGGCTTAGTTGGGGCCCCACGAGACCCCGCGTGAATCGGTAATTTGGGT 692
QY 361 AAGGTCATGACACCTCACTTGGCGCTTCCCGACCTCATGAGATACATCCCTGTGCTT 420
Db 693 AAGGTCATGATACCTCATGAGCGCTTCCCGATCTCATATGGGGTACATTCGCTCGTC 752
QY 421 GGGGCCCCCTTGGAGGGGCTTGGCGGACCTGAGACATGCTGTCAGGGCCATGAGAGAC 480
Db 753 GGGGCCCCCTTGGAGGGGCGCTGGCGAGGCTTGGCGACATGCTGTCAGGGCTTGGAGAGAC 812
QY 481 GGGATTAACCTATGACAGAGGAACTTCCTGGTGTCTCTTCTATCTTCCTTCGCTTGGCA 540
Db 813 GGGCGGAACCTATGACAGAGGAACTTCGCGGCTGTCTCTTCTTCTATCTTCCTTGGGT 872
QY 541 CTTCTCTGTCGCTCAGCAAGCTTCGCTTCGCACTTAACTATGCTTACAGTCTGGGCTG 600
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Db 933 TATCATGTCAGCAAGCACTGCTCCCAAGCAAGCATTTGTATGAGGCGAGCGGACTTGAATC 992
QY 661 CTGCACTCCCGGGTGGGTCCTCGGCGTGAAGACCGGCAACCTGACCAAGTGTGGCTG 720
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Db 1113 CACGTGACCTCTGGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1172
QY 841 TGGCGTGGGCTCTTCTGCTGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 900
Db 1173 TGGGATCTGTTTCTCTGCTCTCTGAGCTGTTCACCTTCTGCTGCTGCTGCTGCTGCTGCT 1232
QY 901 GCCGAGACTGCACTGTTCCATCTATGAGGCGCACTCACTGGGCAACGGATGGC 956
Db 1233 TTACAGGACTGTAAGTGTCAATTTATCCCGGCAATGTGTGGGTACACCGATGGC 1288

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Job time : 233.737 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 : Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-53

Perfect score: 340
Sequence: 1 ctccgacgactactagaaatg.....acgcgcgaactacagact 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|-------------------|-------------------|
| 1 | 339.6 | 99.9 | 340 | US-08-836-075A-53 | Sequence 53, Appl |
| 2 | 303.2 | 89.2 | 340 | US-08-836-075A-55 | Sequence 57, Appl |
| 3 | 302 | 88.8 | 340 | US-08-836-075A-57 | Sequence 57, Appl |
| 4 | 270.4 | 79.5 | 340 | US-08-441-971-11 | Sequence 11, Appl |
| 5 | 270.4 | 79.5 | 340 | US-08-221-653-11 | Sequence 11, Appl |
| 6 | 270.4 | 79.5 | 340 | US-08-442-144A-11 | Sequence 11, Appl |
| 7 | 270.4 | 79.5 | 340 | US-08-441-970-11 | Sequence 11, Appl |
| 8 | 267.2 | 78.6 | 340 | US-08-441-971-12 | Sequence 12, Appl |
| 9 | 267.2 | 78.6 | 340 | US-08-221-653-12 | Sequence 12, Appl |
| 10 | 267.2 | 78.6 | 340 | US-08-442-144A-12 | Sequence 12, Appl |
| 11 | 267.2 | 78.6 | 340 | US-08-441-970-12 | Sequence 12, Appl |
| 12 | 267.2 | 78.6 | 340 | US-08-191-160-3 | Sequence 12, Appl |
| 13 | 267.2 | 78.6 | 340 | US-08-191-160-22 | Sequence 22, Appl |
| 14 | 265.6 | 78.1 | 340 | US-08-441-971-8 | Sequence 8, Appl |
| 15 | 265.6 | 78.1 | 340 | US-08-441-971-9 | Sequence 8, Appl |
| 16 | 265.6 | 78.1 | 340 | US-08-221-653-8 | Sequence 8, Appl |
| 17 | 265.6 | 78.1 | 340 | US-08-221-653-9 | Sequence 8, Appl |
| 18 | 265.6 | 78.1 | 340 | US-08-442-144A-8 | Sequence 8, Appl |
| 19 | 265.6 | 78.1 | 340 | US-08-442-144A-9 | Sequence 8, Appl |
| 20 | 265.6 | 78.1 | 340 | US-08-441-970-8 | Sequence 8, Appl |
| 21 | 265.6 | 78.1 | 340 | US-08-441-970-9 | Sequence 8, Appl |
| 22 | 265.6 | 78.1 | 1773 | US-08-720-095A-1 | Sequence 1, Appl |
| 23 | 264 | 77.6 | 1782 | US-09-597-877-11 | Sequence 11, Appl |
| 24 | 262.4 | 77.2 | 340 | US-08-441-971-10 | Sequence 10, Appl |

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|----|-------|------|------|--------------------|-------------------|
| 25 | 262.4 | 77.2 | 340 | US-08-221-653-10 | Sequence 10, Appl |
| 26 | 262.4 | 77.2 | 340 | US-08-442-144A-10 | Sequence 10, Appl |
| 27 | 262.4 | 77.2 | 340 | US-08-441-970-10 | Sequence 10, Appl |
| 28 | 262.4 | 77.2 | 9472 | US-08-150-204F-96 | Sequence 96, Appl |
| 29 | 261.8 | 77.0 | 9413 | US-09-827-688-E | Sequence 6, Appl |
| 30 | 261.8 | 76.8 | 340 | US-08-836-075A-67 | Sequence 67, Appl |
| 31 | 260.8 | 76.7 | 340 | US-09-878-281A-213 | Sequence 213, App |
| 32 | 260.2 | 76.5 | 6189 | US-10-259-275-41 | Sequence 41, Appl |
| 33 | 260.2 | 76.5 | 7989 | US-09-539-601-4 | Sequence 10, Appl |
| 34 | 260.2 | 76.5 | 7992 | US-10-005-469-1 | Sequence 1, Appl |
| 35 | 260.2 | 76.5 | 7992 | US-10-005-469-2 | Sequence 2, Appl |
| 36 | 260.2 | 76.5 | 7992 | US-10-005-469-4 | Sequence 4, Appl |
| 37 | 260.2 | 76.5 | 7992 | US-10-005-469-5 | Sequence 5, Appl |
| 38 | 260.2 | 76.5 | 7992 | US-10-005-469-6 | Sequence 6, Appl |
| 39 | 260.2 | 76.5 | 7995 | US-10-005-469-3 | Sequence 3, Appl |
| 40 | 260.2 | 76.5 | 8001 | US-09-539-601-7 | Sequence 7, Appl |
| 41 | 260.2 | 76.5 | 8001 | US-09-539-601-22 | Sequence 22, Appl |
| 42 | 260.2 | 76.5 | 8001 | US-09-539-601-28 | Sequence 28, Appl |
| 43 | 260.2 | 76.5 | 8637 | US-09-539-601-4 | Sequence 4, Appl |
| 44 | 260.2 | 76.5 | 8638 | US-10-029-907-6 | Sequence 6, Appl |
| 45 | 260.2 | 76.5 | 8638 | US-10-029-907-7 | Sequence 7, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

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/ ANTI-SENSE: NO
US-08-836-075A-53
Query Match          99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2,66-95;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGCGAGGAATCAATATCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
QY 121 YCTAACCAATTCAAAAGAGCAGAACTGCGGCTACCGTGTGCTCCGCCGAGCGGCTGCT 180
DB 121 YCTAACCAATTCAAAAGAGCAGAACTGCGGCTACCGTGTGCTCCGCCGAGCGGCTGCT 180
QY 181 GACTACGAGCTGGGCAACACCTTGACATGCTTGAAGCCAGAGGGGCGCTGTGAGC 240
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QY 241 TGCAGAGCTCCGGGCACTGCAACCATCTCGTGTGCGGGAGTGAACCTTGTCTTATCTGGA 300
DB 241 TGCAGAGCTCCGGGCACTGCAACCATCTCGTGTGCGGGAGTGAACCTTGTCTTATCTGGA 300
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DB 301 GAGTCGGGAGTTCAGAGAAAGACGGCGGCAACTACGAGCT 340

RESULT 2
US-08-836-075A-55
; Sequence 55, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
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/ LENGTH: 340 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
US-08-836-075A-55
Query Match          89.2%; Score 303.2; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 4,76-84;
Matches 314; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

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QY 61 GGGCCCCGAGGCTCCGCAAGGCCATTAAGTCGCTCAACCGAGCGCTGTATCATCGGGGGCCC 120
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QY 181 GACTACGAGCTGGGCAACACCTTGACATGCTTGAAGCCAGAGGGGCGCTGTGAGC 240
DB 181 GACTACGAGCTGGGCAACACCTTGACATGCTTGAAGCCAGAGGGGCGCTGTGAGC 240
QY 241 TGCAGAGCTCCGGGCACTGCAACCATCTCGTGTGCGGGAGTGAACCTTGTCTTATCTGGA 300
DB 241 TGCAGAGCTCCGGGCACTGCAACCATCTCGTGTGCGGGAGTGAACCTTGTCTTATCTGGA 300
QY 301 GAGTCGGGAGTTCAGAGAAAGACGGCGGCAACTACGAG 338
DB 301 GAGTCGGGAGTTCAGAGAAAGACGGCGGCAACTACGAG 338

RESULT 3
US-08-836-075A-57
; Sequence 57, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
```

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 88.8%; Score 302; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 1.1e-83;
Matches 314; Conservative 2; Mismatches 22; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGACATCGTGTGAGGAGATATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCGTGTGAGGAGATATATACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCTCACCGAGCGGCTGTATATCGGGGGTCC 120
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RESULT 4

US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528

FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-441-971-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGACATCGGTCGAGGAATATACCAATGTTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCGGTCGAGGAGTCAATTTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCTCACCGAGCGGCTGTACATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATAAAGTCTCACCGAGCGGCTGTACATCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGCTACCGTCCGTCGCCGCGGCGTGTCT 180
DB 121 CTTAACCAACTCAAAAGGCGAAGCTGCGGCTACCGTCCGTCGCCGCGGCGGCGTGTCT 180
QY 181 GACTACCAAGCTCGGCGCAACCCCTGACATGCTACTTTGAAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACGACTGAGCTCGGCGTAACCTTCACATGTTACTTTGAAAGCCCTGTGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCGGGAGCTGCAACCATGCTGTGTGCGGGAGTGAACCTTGTGTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGCAACATGCTGTGTGCGGGAGTGAACCTTGTGTTATCTGTGA 300
QY 301 GAGTCCGGGAGTCGAGGAGAGAGCGGCGCACTACGAG 338
DB 301 GAGCGCGGGAACCAAGAGAGAGCGGCGGCGCTACGAG 338

RESULT 5

US-08-221-653-11
Sequence 11, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-221-653-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTCAGATGATGATCATCGTGTGCGAGGATCAATATATCAATGTTGACTT 60
DB 1 CTCGACAGTTCAGATGATGATCATCGTGTGCGAGGATCAATATATCAATGTTGACTT 60
QY 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTGTGCTCACCGAGCGGCTGTATCATCGGGGGCC 120
DB 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTGTGCTCACCGAGCGGCTGTATCATCGGGGGCC 120
QY 121 YCTAACCAATTTAAAAGAGACAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
DB 121 YCTAACCAATTTAAAAGAGAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
QY 121 CCGACTAATTCAAAAGGGCAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
DB 121 CCGACTAATTCAAAAGGGCAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
QY 181 GACTACGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACTACGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TCGCAAGCTCCAGAGCTGCACATGCTCGTGTGCGGGATGACCTTGTCTTATCTGTGA 300
DB 241 TCGCAAGCTCCAGAGCTGCACATGCTCGTGTGCGGGATGACCTTGTCTTATCTGTGA 300
QY 301 GAGTGGGGAGTTCAGAGAAAGCGCGGCGAATCACTAGAG 338
DB 301 GAGTGGGGAGTTCAGAGAAAGCGCGGCGAATCACTAGAG 338
301 GAGCGGGGAACCCAGAGAGACGCGGCGAGCTTACGAG 338

RESULT 6
US-08-442-144A-11
Sequence 11, Application US/08442144A

GENERAL INFORMATION:
PATENT NO. 6214583
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep1
US-08-442-144A-11

Query Match 79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTCAGATGATGATCATCGTGTGCGAGGATCAATATATCAATGTTGACTT 60
DB 1 CTCGACAGTTCAGATGATGATCATCGTGTGCGAGGATCAATATATCAATGTTGACTT 60
QY 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTGTGCTCACCGAGCGGCTGTATCATCGGGGGCC 120
DB 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTGTGCTCACCGAGCGGCTGTATCATCGGGGGCC 120
QY 121 YCTAACCAATTTAAAAGAGACAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
DB 121 YCTAACCAATTTAAAAGAGAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
QY 121 CCGACTAATTCAAAAGGGCAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
DB 121 CCGACTAATTCAAAAGGGCAGAACTGGCGGCTACCGTCCGTCGCCGAGGGGGTGT 180
QY 181 GACTACGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACTACGAGCTGCGGCAACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
QY 241 TCGCAAGCTCCAGAGCTGCACATGCTCGTGTGCGGGATGACCTTGTCTTATCTGTGA 300
DB 241 TCGCAAGCTCCAGAGCTGCACATGCTCGTGTGCGGGATGACCTTGTCTTATCTGTGA 300
QY 301 GAGTGGGGAGTTCAGAGAAAGCGCGGCGAATCACTAGAG 338
DB 301 GAGTGGGGAGTTCAGAGAAAGCGCGGCGAATCACTAGAG 338
301 GAGCGGGGAACCCAGAGAGACGCGGCGAGCTTACGAG 338

RESULT 7
US-08-441-970-11
Sequence 11, Application US/08441970

GENERAL INFORMATION:
PATENT NO. 6297370
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

```

/ ADDRESS: Wolf, Greenfield & Sacks, P.C.
/ STREET: 600 Atlantic Avenue
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02210
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch
/ COMPUTER: IBM compatible
/ OPERATING SYSTEM: MS-DOS Version 3.3
/ SOFTWARE: Wordperfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/441,970
/ FILING DATE: 16-MAY-1995
/ CLASSIFICATION: 536
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/881,528
/ FILING DATE: 08-MAY-1992
/ APPLICATION NUMBER: 07/697,326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiuk, Anthony J.
/ REGISTRATION NUMBER: 29,809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELETYPE: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5sp1
/
US-08-441-970-11

Query Match      79.5%; Score 270.4; DB 3; Length 340;
Best Local Similarity 87.3%; Pred. No. 6.7e-74;
Matches 295; Conservative 1; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACGACTTCTGAGATGACATCCGTGTCGAGGAATCAATATACCAATGTTGACTT 60
DB 1 CTCACAGTCACTGAGAGTGAATCGTGTGAGAGTCAATTTACCAATGTTGACTT 60
QY 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTACATCGGGGCGC 120
DB 61 GGCCCCCGAAGCCAGACAGGCTATAAGTCGCTCACAGAGCGGCTGTACATCGGGGCGC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCTGT 180
DB 121 CTTGACTAATTTAAAGGCGCAAGCTGCGGCTATCGCCGTCGCGCAAGCGGCTGT 180
QY 181 GACTACGAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAACACCTTCAATGTTAAAGGCTCTGCGGCTGTGAGC 240
QY 241 TCGAAGCTCCGGAGCTGACCATGCTGCTGCGGGAGTGAAGCTTGTGTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGACCATGCTGCTGCGGGAGTGAAGCTTGTGTTATCTGTGA 300
QY 301 GAGTCCGGAGTTCAGAGAAAGAGCGGCGCAACTTACGAG 338
DB 301 GAGCGCGGGAACCAAGAGAGCGCGGCGAGCCTTACGAG 338

```

```

/ APPLICANT: Tai-An Cha
/ TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
/ TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
/ NUMBER OF SEQUENCES: 147
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: Wolf, Greenfield & Sacks, P.C.
/ STREET: 600 Atlantic Avenue
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02210
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch
/ COMPUTER: IBM compatible
/ OPERATING SYSTEM: MS-DOS Version 3.3
/ SOFTWARE: Wordperfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/441,971
/ FILING DATE: 16-MAY-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/221,653
/ FILING DATE:
/ APPLICATION NUMBER: US/07/881,528
/ FILING DATE:
/ APPLICATION NUMBER: 07/697,326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiuk, Anthony J.
/ REGISTRATION NUMBER: 29,809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELETYPE: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 12:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5sep3
/
US-08-441-971-12

Query Match      78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACGACTTCTGAGATGACATCCGTGTCGAGGAATCAATATACCAATGTTGACTT 60
DB 1 CTCACAGTCACTGAGAGTGAATCGTGTGAGAGTCAATTTACCAATGTTGACTT 60
QY 61 GGCCCCCGAGGCTCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTACATCGGGGCGC 120
DB 61 GGCCCCCGAAGCCAGACAGGCTATAAGTCGCTCACAGAGCGGCTGTACATCGGGGCGC 120
QY 121 YCTAACCAATTCAAAAGACAGAACTGCGGCTACCGTCCGTCCGCGCCAGCGGCTGT 180
DB 121 CTTGACTAATTTAAAGGCGCAAGCTGCGGCTATCGCCGTCGCGCAAGCGGCTGT 180
QY 181 GACTACGAGCTGCGGCAACACCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAACACCTTCAATGTTAAAGGCTCTGCGGCTGTGAGC 240
QY 241 TCGAAGCTCCGGAGCTGACCATGCTGCTGCGGGAGTGAAGCTTGTGTTATCTGTGA 300
DB 241 TCGGAAGCTCCAGAGCTGACCATGCTGCTGCGGGAGTGAAGCTTGTGTTATCTGTGA 300
QY 301 GAGTCCGGAGTTCAGAGAAAGAGCGGCGCAACTTACGAG 338
DB 301 GAGCGCGGGAACCAAGAGAGCGCGGCGAGCCTTACGAG 338

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RESULT 9

US-08-221-653-12
Sequence 12, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p3
US-08-221-653-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCTAGAGATGACATCGTGTGAGGATCAATATACCAATGTTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCACAGTCTAGAGATGACATCGTGTGAGGATCAATATACCAATGTTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GGCCCCCGAGGCTCGCAGGCGCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGCCCCCGAGGCGCAGACAGGCTATAGTTCGCTACAGAGCGGCTTTACATCGGGGGTCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 YCTAACCAATTTAAAAGAGACAGAACTGCGGCTACCGTCCGGCCGAGGGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CTTGACTAATTTAAAAGGCGCAGAACTGCGGCTATCGCCGCGTCCGCGCAAGCGGCGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 GACTACACAGCTGGGCAACACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 181 GACGACTAGCTGGGTAATACCTCTACATGTTACTGAAGGCCAGTGGGCTGTGAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 TGCAGAGCTCGGGAGCTGACCAATGCTGTGTGCGGGGATGACCTTGTGTTATCTGTGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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DB 241 TGCAGAGCTCCAGGACTGACACATGCTCGTGTGCGGTAGACACCTGTGTTATCTGTGA 300
QY 301 GAGTCCGGGAGTTCGAGGAAGACGCGGCAACCTTACGAG 338
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 301 GAGCGCGGGACCCAGAGGACGCGGCGAGGCTTACGAG 338
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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RESULT 10

US-08-442-144A-12
Sequence 12, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p3
US-08-442-144A-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

```
QY 1 CTCGACAGTCTAGAGATGACATCGTGTGAGGATCAATATACCAATGTTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCACAGTCTAGAGATGACATCGTGTGAGGATCAATATACCAATGTTTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GGCCCCCGAGGCTCGCAGGCGCATTAAGTCGCTACCGAGCGGCTGTACATCGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGCCCCCGAGGCGCAGACAGGCTATAGTTCGCTACAGAGCGGCTTTACATCGGGGGTCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 YCTAACCAATTTAAAAGAGACAGAACTGCGGCTACCGTCCGGCCGAGGGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CTTGACTAATTTAAAAGGCGCAGAACTGCGGCTATCGCCGCGTCCGCGCAAGCGGCGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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QY 181 GACTACCACTGCGGCAACCCCTGACATGCTATTGAAAAGCAGAGCGGCTGTGAGC 240
DB 181 GACGACTGCTCGGTAATACCTTCACATGTTACTGAAAGGCAAGTGGCGCTGTGAGC 240
QY 241 TCGAAGCTCCGGGACCTGACCATGCTGTGTGCGGGAGTGAACCTTGTCTTATCTGTGA 300
DB 241 TCGAAGCTCCAGAGCTGACCAATGCTGTGTGCGGTGACGACCTTGTCTTATCTGTGA 300
QY 301 GAGTCCGGGAGTCCAGAGAGAGCGCGCACTTAAGAG 338
DB 301 GAGCGGGGACCCAGAGAGAGCGCGCACTTAAGAG 338

RESULT 11
US-08-441-970-12
; Sequence 12, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29, 809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5sg3
US-08-441-970-12

Query Match 78.6%; Score 267.2; DB 3; Length 340;
Best Local Similarity 86.7%; Pred. No. 6.5e-73;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACGATTACTGGAATGATCGGTGCGAGATCAATATCAATGTTGACTT 60
DB 1 CTCGAAGCTGCTGAGAGATCGGTGTTGAGAGTCAATCTACCAATGTTGACTT 60
61 GGCCCCGAGGCTCCCAAGGCGATTAAGTCTCACCGGCGCTGTACATCGGGGCGCC 120

DB 61 GGCCCCGAGGCGAGACAGAGCTATAGTTCGCTCAACAGAGCGGCTTTATCATTCGGGGGTCC 120
QY 121 YCTAACCAATTCAAAAGGAGAGAACTGGGCTACCGTGGTGCGCGGCGAGGGGTGCT 180
DB 121 CCTGACTAATTCAAAAGGAGAGAACTGGGCTATTCGCGGTGCGCGGCAAGCGGGTCT 180
QY 181 GACTACCACTGCGGCAACCCCTGACATGCTATTGAAAAGCAGAGCGGCTGTGAGC 240
DB 181 GACGACTGCTCGGTAATACCTTCACATGTTACTGAAAGGCAAGTGGCGCTGTGAGC 240
QY 241 TCGAAGCTCCGGGACCTGACCATGCTGTGTGCGGGAGTGAACCTTGTCTTATCTGTGA 300
DB 241 TCGAAGCTCCAGAGCTGACCAATGCTGTGTGCGGTGACGACCTTGTCTTATCTGTGA 300
QY 301 GAGTCCGGGAGTCCAGAGAGAGCGCGCACTTAAGAG 338
DB 301 GAGCGGGGACCCAGAGAGAGCGCGCACTTAAGAG 338

RESULT 12
US-08-191-160-3
; Sequence 3, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbera, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 KB storage
; COMPUTER: IBM AT compatible
; OPERATING SYSTEM: MS-DOS V3.2
; SOFTWARE: Wordperfect 5.0 (DOS text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/191,160
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/628,516
; FILING DATE: 17 DEC 1990
; APPLICATION NUMBER: UK 89 28 562.1
; FILING DATE: 18 DEC 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 414.0
; FILING DATE: 27 FEB 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 814.1
; FILING DATE: 03 MAR 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Anthony Figg
; REGISTRATION NUMBER: 27,195
; REFERENCE/DOCKET NUMBER: 1645-103A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 833-5740
; TELEFAX: (202) 833-5744
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1770 base pairs
; TYPE: nucleotide with corresponding protein
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH

IMMEDIATE SOURCE:
LIBRARY: clone J62 from cDNA library in lambda gt11
FEATURE: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match 78.6%; Score 267.2; DB 3; Length 1770;
Best Local Similarity 86.7%; Pred. No. 1.2e-72;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGATCCGTGTCGAGGAATCAATATCCATGTTGACTT 60
DB 1281 CTCACAGTCACCTGAGATGATCCGTGTAAGAGGATCAATTTATCAATGTTGACTT 1340
QY 61 GGGCCCGAGAGCTCCGACAGCCATTAAGTCTGCTACAGCGGCTGTACATCGGGGCC 120
DB 1341 GGGCCCGAGAGCCAGACAGCCATTAAGTCTGCTACAGAGCGGCTTATATCGGGGCTC 1400
QY 121 YCTAACCAATTCAAAAGAGACAGACTGCGGCTACCGTCCGCGCCGAGCGGCTGCT 180
DB 1401 CCTGACTAATTCAAAAGAGAGCTGCGGCTATCGCGGCTGCGCGAGCGGCTGCT 1460
QY 181 GACTACCACTGCGGACAGACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 1461 GACGACTACCTGCGGTAATACCTCTACATGTTACTTGAAGGCTCTGACGCTGTGAGC 1520
QY 241 TCCAAAGCTCCGGAGCTGACACATGCTGCTGTCGGGAGTGAACCTTGTCTTGTGA 300
DB 1521 TCCAAAGCTCCAGAGCTGACATGCTGCTGTGTCGGAGACGGCTTGTCTTGTGA 1580
QY 301 GAGTCCGGAGTCCAGAGAGAGCGCGGCACTTACGAG 338
DB 1581 GAGCGCGGAGACCCAGAGAGCGCGGCACTTACGAG 1618

RESULT 13
US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rogers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Pigg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990

PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Pigg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22

Query Match 78.6%; Score 267.2; DB 3; Length 3750;
Best Local Similarity 86.7%; Pred. No. 1.6e-72;
Matches 293; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGATGATCCGTGTCGAGGAATCAATATCCATGTTGACTT 60
DB 3261 CTCACAGTCACCTGAGATGATCCGTGTAAGAGGATCAATTTATCAATGTTGACTT 3320
QY 61 GGGCCCGAGAGCTCCGACAGCCATTAAGTCTGCTACAGCGGCTGTACATCGGGGCC 120
DB 3321 GGGCCCGAGAGCCAGACAGCCATTAAGTCTGCTACAGAGCGGCTTATATCGGGGCTC 3380
QY 121 YCTAACCAATTCAAAAGAGACAGACTGCGGCTACCGTCCGTCGGCGGAGCGGCTGCT 180
DB 3381 CCTGACTAATTCAAAAGAGAGCTGCGGCTATCGCGGCTGCGCGAGCGGCTGCT 3440
QY 181 GACTACCACTGCGGACAGACCCCTGACATGCTACTTGAAGCCAGAGCGGCTGTGAGC 240
DB 3441 GACGACTACCTGCGGTAATACCTCTACATGTTACTTGAAGGCTGTGAGGCTGTGAGC 3500
QY 241 TCCAAAGCTCCGGAGCTGACACATGCTGCTGTCGGGAGTGAACCTTGTCTTGTGA 300
DB 3501 TCCAAAGCTCCAGAGCTGACATGCTGCTGTGTCGGAGACGGCTTGTCTTGTGA 3560
QY 301 GAGTCCGGAGTCCAGAGAGAGCGCGGCACTTACGAG 338
DB 3561 GAGCGCGGAGACCCAGAGAGAGCGCGGCACTTACGAG 3598

RESULT 14
US-08-441-971-8
Sequence 8, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match 78.1%; Score 265.6; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2e-72;
Matches 292; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 1 CTCGACGACTTCTGAGATGACATCCGTGCGAGGAATATATCCATGTTGACTT 60
DB 1 CTCACGGGTGACGAGATGACATCCGTGTTGAGGATATTAATTCCTTAAGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTATCATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTATCATCGGGGGCCC 120
QY 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGGTGCGCGCCAGCGCGTGTCT 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGGTGCGCGCCAGCGCGTGTCT 180
QY 181 GACTACCAAGCTGCGGCAACCCCTGACATGCTACTTGAAGGCGGCGGCTGTGAGAC 240
DB 181 GACGACTACCTGCGGTAATACCTTCAATGTTAAGGCGGCTGTGAGAC 240
QY 241 TGCAGAGCTCCGAGACTGCAAGCACTGCTGCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
DB 241 TGCAGAGCTCCGAGACTGCAAGCACTGCTGCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
QY 301 GAGTGGGAGTTCAGAGAAAGACGGCGGCAACTTACGAG 338
DB 301 AAGCGGGGAAACCCAGAGAGATGCGGCGAGCTTACGAG 338

RESULT 15
US-08-441-971-9
Sequence 9, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1.1
US-08-441-971-9

Query Match 78.1%; Score 265.6; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2e-72;
Matches 292; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 1 CTCGACGACTTCTGAGATGACATCCGTGCGAGGAATATATCCATGTTGACTT 60
DB 1 CTCACGGGTGACGAGATGACATCCGTGTTGAGGATATTAATTCCTTAAGTTGACTT 60
QY 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTATCATCGGGGGCCC 120
DB 61 GGGCCCCGAGGCTCGCAAGGCCATTAAGTCTGCTACCGAGCGGCTGTATCATCGGGGGCCC 120
QY 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGGTGCGCGCCAGCGCGTGTCT 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGGTGCGCGCCAGCGCGTGTCT 180
QY 181 GACTACCAAGCTGCGGCAACCCCTGACATGCTACTTGAAGGCGGCGGCTGTGAGAC 240
DB 181 GACGACTACCTGCGGTAATACCTTCAATGTTAAGGCGGCTGTGAGAC 240
QY 241 TGCAGAGCTCCGAGACTGCAAGCACTGCTGCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
DB 241 TGCAGAGCTCCGAGACTGCAAGCACTGCTGCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
QY 301 GAGTGGGAGTTCAGAGAAAGACGGCGGCAACTTACGAG 338
DB 301 AAGCGGGGAAACCCAGAGAGATGCGGCGAGCTTACGAG 338

Search completed: January 11, 2006, 10:56:27
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-55

Query Match 99.8%; Score 339.2; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 7e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGACTT 60
   |||
DB 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGACTT 60
QY 61 GGGCCCYAGGCGCCGCAAGGCCATTAAGTCGCTCACCGAGCGCTGTACGTGCGGGGCC 120
   |||
DB 61 GGGCCCYAGGCGCCGCAAGGCCATTAAGTCGCTCACCGAGCGCTGTACGTGCGGGGCC 120
QY 121 CCTAACCAATTCAAAAGGGGCGAAGCTGCGGCTATGTCGTGCTGCGGCTAGCGGCTGCT 180
   |||
DB 121 CCTAACCAATTCAAAAGGGGCGAAGCTGCGGCTATGTCGTGCTGCGGCTAGCGGCTGCT 180
QY 181 GACCAACGAGCTGCGGCAACCCCTCACATGCTACTTGAAGCCAGGGCGGCTGTGAGC 240
   |||
DB 181 GACCAACGAGCTGCGGCAACCCCTCACATGCTACTTGAAGCCAGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGACTGACAGTGTCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
   |||
DB 241 TGCAGAGCTCCAGAGACTGACAGTGTCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
QY 301 GAGCGCGGAGTCCGAGAGAGAGCGCGGCAACCTACGAGTC 340
   |||
DB 301 GAGCGCGGAGTCCGAGAGAGAGCGCGGCAACCTACGAGTC 340

```

RESULT 2

US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 57:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 89.3%; Score 303.6; DB 3; Length 340;
Best Local Similarity 92.6%; Pred. No. 3.2e-81;
Matches 315; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

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QY 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGACTT 60
   |||
DB 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGACTT 60
QY 61 GGGCCCYAGGCGCCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTACGTGCGGGGCC 120
   |||
DB 61 GGGCCCYAGGCGCCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGCTCC 120
QY 121 CCTAACCAATTCAAAAGGGGCGAAGCTGCGGCTATGTCGTGCTGCGGCTAGCGGCTGCT 180
   |||
DB 121 CCTAACCAATTCAAAAGGGGCGAAGCTGCGGCTATGTCGTGCTGCGGCTAGCGGCTGCT 180
QY 181 GACCAACGAGCTGCGGCAACCCCTCACATGCTACTTGAAGCCAGGGCGGCTGTGAGC 240
   |||
DB 181 GACCAACGAGCTGCGGCAACCCCTCACATGCTACTTGAAGCCAGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGACTGACAGTGTCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
   |||
DB 241 TGCAGAGCTCCAGAGACTGACAGTGTCTGTGCGGAGACGACCTTGTCTATCTGTGA 300
QY 301 GAGCGCGGAGTCCGAGAGAGAGCGCGGCAACCTACGAGTC 340
   |||
DB 301 GAGTCRGAGTCCGAGAGAGAGCGCGGCAACCTACGAGTC 340

```

RESULT 3

US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

Query Match 89.2%; Score 303.2; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 4,2e-81;
Matches 314; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

QY 1 CTGACAGTACTGAGAAAGACATCCGTACCGAGGATCATCTATCATGTTGTGACTT 60
DB 1 CTGACAGTACTGAGAAAGACATCCGTACCGAGGATCATCTATCATGTTGTGACTT 60
QY 61 GGCCCCYAGAGCCCGCAAGCCCATTAAGTCCCTACCCGAGCGGCTGTACGTGGGGGCC 120
DB 61 GGCCCCCGAGGCTCCCAAGGCGCATTAAGTCCCTACCCGAGCGGCTGTACGTGGGGGCC 120
QY 121 CCTAACCAATTCAAGGGGCAAACTGGGGCTATCGTGGTCCCGCTAGGGGCTGCT 180
DB 121 YCTAACCAATTCAAAAGAGCAAACTGGCGGTACCGTGGTCCCGCGCAGGGGCTGCT 180
QY 181 GACCAACGAGCTGGCGCAACACCCCTCAATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
DB 181 GACTACCAAGCTGGCGCAACACCCCTCAATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGACGATCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
DB 241 TGCAGAGCTCCAGAGCTGACGATCTCGTGTGCGGAGATGACTTGTCTTATCTGTGA 300
QY 301 GAGCGCGGAGTCCGAGAGAGAGCGCGGCGAACCCTACGAG 338
DB 301 GAGTGGGGAGTCCGAGAGAGAGCGCGGCGAACCCTACGAG 338

RESULT 4

US-08-191-160-3
Sequence 3, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figs, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516

FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figs
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1770 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: clone U62 from cDNA library in lambda gt11
FEATURE:
LOCATION: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match 81.4%; Score 276.8; DB 3; Length 1770;
Best Local Similarity 87.9%; Pred. No. 5.7e-73;
Matches 299; Conservative 2; Mismatches 39; Indels 0; Gaps 0;

QY 1 CTGACAGTACTGAGAAAGACATCCGTACCGAGGATCATCTATCATGTTGTGACTT 60
DB 1281 CTGACAGTACTGAGAAAGACATCCGTACCGAGGATCATCTATCATGTTGTGACTT 1340
QY 61 GGCCCCYAGAGCCCGCAAGCCCATTAAGTCCCTACCCGAGCGGCTGTACGTGGGGGCC 120
DB 1341 GGCCCCCGAGGCTCCCAAGGCGCATTAAGTCCCTACCCGAGCGGCTGTACGTGGGGGCC 1400
QY 121 CCTAACCAATTCAAGGGGCAAACTGGGGCTATCGTGGTCCCGCTAGGGGCTGCT 180
DB 1401 CCTAACCAATTCAAAAGAGCAAACTGGCGGTACCGTGGTCCCGCGCAGGGGCTGCT 1460
QY 181 GACCAACGAGCTGGCGCAACACCCCTCAATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
DB 1461 GACCAACGAGCTGGCGCAACACCCCTCAATGCTACTTTGAAAGCCAGGGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGACGATCTCGTGTGCGGAGACGACCTTGTCTTATCTGTGA 300
DB 1521 TGCAGAGCTCCAGAGCTGACGATCTCGTGTGCGGAGAGCGGCTTGTCTTATCTGTGA 1580
QY 301 GAGCGCGGAGTCCGAGAGAGAGCGCGGCGAACCCTACGAGTC 340
DB 1581 GAGCGCGGAGTCCGAGAGAGAGCGCGGCGAACCCTACGAGTC 1620

RESULT 5

US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent

```

NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEO ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE:
LOCATION: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polypeptide
OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22

```

| Query | Match | Similarity | 81.4% | Score | 276.8 | DB | 3 | Length | 3750 |
|---------|-------|---|-------|-------|-------------|------------|----|--------|------|
| Best | Local | Similarity | 87.9% | Pred. | No. 7.3e-73 | | | | |
| Matches | 299 | Conservative | | | 2 | Mismatches | 33 | Indels | 0 |
| | | | | | | | | Gaps | 0 |
| QY | 1 | CTCGACAGTTACTGAAAGCATTCCTCGTACCGAGGATCAATCTATCAATGTTGACTT | | | | | | | 60 |
| Db | 3261 | CTCAACAGTCACTGAGATGATCATCCGTGTAGAGGAGATCAATTTATCATGTGTGACTT | | | | | | | 3320 |
| QY | 61 | GGCCCCYAGAGGCCCCAGAGGCCATTAAGTCGTCTCAACGAGCGCGTGTACGTGGGGGGCC | | | | | | | 120 |
| QY | 3321 | GGCCCCCGAAGCAAGCCATTAAGTGTCTCAACAGCGCGCTTTATATCGGGGGATCC | | | | | | | 3380 |
| Db | 121 | CTTAACCAATTCMAAGGGGAGAACTGCGGCTATCGTGGTGTCCGCTAGCGCGGTCT | | | | | | | 180 |
| QY | 3381 | CCTGACTAATTCAAAAGGCGAATCGCGGCTATCGCGGTCGCCGCGAGCGGGCGTCT | | | | | | | 3440 |
| Db | 181 | GACCAACAGCTCGGGCAACCCCTCAATGCTATGAAAGCGAGGGGGGCGCTGTGACG | | | | | | | 240 |
| QY | 3441 | GACGACTAGCTCGGGTAATACCTTCACATGTATCTTGAAGGCGCTTCGACGCTGTGACG | | | | | | | 3500 |
| Db | 241 | TGCAAGCTCCAGGACTGACAGTCTCGTGTGGGAGACGACTTGTGTATCTGTGA | | | | | | | 300 |

Db 3501 TCGAAGCTCCAGGACTGCAGATGCTGTCTGCGGAGACGGCCTTGTCGTTACTGGA 3560

Oy 301 GAGCGCGGAGTCCGAGGAGACGGCGGACCTACGATC 340

Db 3501 GAGCGCGGAGTCCGAGGAGACGGCGGACCTACGATC 3600

RESULT 6
 US-08-441-971-11
 Sequence 11, Application US/08441971
 Patent No. 6071653
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQ
 TITLE OF INVENTION: DIAGNOSTICS AND
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSER: Wolf, Greenfield & Saa
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441, 971
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/221, 653
 FILING DATE:
 APPLICATION NUMBER: US/07/881, 528
 FILING DATE: 07/697, 326
 APPLICATION NUMBER: 07/697, 326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janiuk, Anthony J.
 REGISTRATION NUMBER: 29, 809
 REFERENCE/DOCKET NUMBER: C0772/707
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELETEL: EZEKIEL
 INFORMATION FOR SEQ. ID NO.: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: m85sp1
 US-08-441-971-11

| Query Match | 80.9%; | Score 275.2; | DB 3; | Length 340; |
|-----------------------|-----------------|---|-----------|-------------|
| Best Local Similarity | 87.6%; | Pred. No. 1e-72; | | |
| Matches 298; | Conservative 2; | Mismatches 40; | Indels 0; | Gaps 0. |
| QY | 1 | CTCGACAGTTATGAGAAAGCATCCGATCCGAGGATCAATCTATCAATGTTGACCT | 60 | |
| | | | | |
| Db | 1 | CTCCACAGTCACTGAGATGATCATCCGTTGTGAGAGATCAATTTCCAATGTTGACTT | 60 | |
| QY | 61 | GGCCCCYAGGGCCCCCAAGCCATATAAGTCGTCACAGCGGCGTGCCTGCGGGGGCCC | 120 | |
| | | | | |
| Db | 61 | GGCCCCCGAAGCAACACAGGCTATAGAATCGCTCACAGAGCGGCTGTATCATCGGGGGTCC | 120 | |
| QY | 121 | CCTAACCAATTCAAAAGGGGCAAGACTGGGGGCTATGTCGGTGTGGCGCTAGCGGGGTGCT | 180 | |
| | | | | |

Db 121 CCTGATTAATTCAGAAAGGCGAGACTGCGGCTATCGCCGGTCCGCGCAAGCGGCTGCT 180
Qy 181 GACCAACGACTGCGGCAACACCTCTCATGCTACTTGAAGGCGAGGCGGCTGTGAGC 240
Db 181 GACGACTACTGCTGCGGTAAACCTTCACATGTTACTTGAAGGCGCTTGTGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACGATGCTGTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACGATGCTGTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Qy 301 GAGCGCGGAGATCCAGAGAGACGCGGCGCAACTACGAGTC 340
Db 301 GAGCGCGGAGATCCAGAGAGACGCGGCGCAACTACGAGTC 340

RESULT 7
US-08-221-653-11
; Sequence 11, Application US/08221653
; Patent No. 6190864

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5spl
US-08-221-653-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;
Best Local Similarity 87.6%; Pred. No. 1e-72;
Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

Qy 1 CTCGACAGTACTGAGACGACATCCGTAACGAGATCAATCTATCAATGTTGACTT 60
Db 1 CTCGACAGTACTGAGATGAGATCGGTGTTGAGAGTCAATTTACCAATGTTGACTT 60
Qy 61 GCGCCCGAGGCGCCCAAGGCGCATTAAGTCTGCTACGAGCGGCTGTACGTCGCGGCGCC 120

Db 61 GCGCCCGAGGCGCCCAAGGCGCATTAAGTCTGCTACGAGCGGCTGTACGTCGCGGCGTCC 120
Qy 121 CCTAACCAATTCAGAAAGGCGGCAAGACTGCGGCTATCTGTGTGCGGCTTACGCGGTCT 180
Db 121 CCTGATTAATTCAGAAAGGCGGCAAGACTGCGGCTATCTGTGTGCGGCGGCGGTCT 180
Qy 181 GACCAACGACTGCGGCAACACCTCTCATGCTACTTGAAGGCGAGGCGGCTGTGAGC 240
Db 181 GACGACTACTGCTGCGGTAAACCTTCACATGTTACTTGAAGGCGCTTGTGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACGATGCTGTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACGATGCTGTGTGCGGAGACGACTTGTGCTTATCTGTGA 300
Qy 301 GAGCGCGGAGATCCAGAGAGACGCGGCGCAACTACGAGTC 340
Db 301 GAGCGCGGAGATCCAGAGAGACGCGGCGCAACTACGAGTC 340

RESULT 8
US-08-442-144A-11
; Sequence 11, Application US/08442144A
; Patent No. 6214583

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5spl
US-08-442-144A-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;
Best Local Similarity 87.6%; Pred. No. 1e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

```

QY 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGTGACTT 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 CTCGACAGTACTGAGAGACATCCGTATGAGAGTCAATTTACCAATGTTGTGACTT 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 61 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTACGTGGGGGCC 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTACGTGGGGGCC 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 121 CCTAACCAATTCAAGGGGCAAGAACTGCGGCTATGCTCGGTCTGCGGCTGCT 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 121 CCTGACTAATTCAAAAGGGGCAAGAACTGCGGCTATGCTCGGTCTGCGGCTGCT 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 181 GACCACTGCTGCGGCAACACCTCTGACATGCTTGAAGGCGGCTGTCGAGC 240
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 181 GACGACTGCTGCGGCAACACCTCTGACATGCTTGAAGGCGGCTGTCGAGC 240
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 241 TGCAGAGCTCCAGAGCTGACAGATGCTCGTGTGCGGAGAGCACTTGTCTGTGTA 300
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 241 TGCAGAGCTCCAGAGCTGACAGATGCTCGTGTGCGGAGAGCACTTGTCTGTGTA 300
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

```

RESULT 9
US-08-441-970-11
Sequence 11, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacke, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: nss5p1
US-08-441-970-11

Query Match 80.9%; Score 275.2; DB 3; Length 340;

Best Local Similarity 87.6%; Pred. No. 1e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

```

QY 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGTGACTT 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 CTCGACAGTACTGAGAGATGACATCCGTATTGAGAGTCAATTTACCAATGTTGTGACTT 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 61 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTACGTGGGGGCC 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTACGTGGGGGCC 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 121 CCTAACCAATTCAAGGGGCAAGAACTGCGGCTATGCTCGGTCTGCGGCTGCT 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 121 CCTGACTAATTCAAAAGGGGCAAGAACTGCGGCTATGCTCGGTCTGCGGCTGCT 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 181 GACCACTGCTGCGGCAACACCTCTGACATGCTTGAAGGCGGCTGTCGAGC 240
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 181 GACGACTGCTGCGGCAACACCTCTGACATGCTTGAAGGCGGCTGTCGAGC 240
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 241 TGCAGAGCTCCAGAGCTGACAGATGCTCGTGTGCGGAGAGCACTTGTCTGTGTA 300
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 241 TGCAGAGCTCCAGAGCTGACAGATGCTCGTGTGCGGAGAGCACTTGTCTGTGTA 300
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 301 GAGCGCGGAGTTCGAGAGAGAGCGCGGCAACCTTACGAGTC 340
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

```

RESULT 10

US-09-827-688-6

Sequence 6, Application US/09827688

Patent No. 6821955

GENERAL INFORMATION:

APPLICANT: ORSON, FRANK

APPLICANT: KINSEY, BERMA

APPLICANT: BHOGAL, BALBIR

TITLE OF INVENTION: MACROAGGREGATED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION D

FILE REFERENCE: P01949US1/10004014

CURRENT APPLICATION NUMBER: US/09/827,688

CURRENT FILING DATE: 2001-04-06

PRIOR APPLICATION NUMBER: 60/195,680

PRIOR FILING DATE: 2000-04-07

NUMBER OF SEQ ID NOS: 13

SOFTWARE: PatentIn version 3.0

SEQ ID NO 6

LENGTH: 9413

TYPE: DNA

ORGANISM: HEPATITIS C

US-09-827-688-6

Query Match 80.9%; Score 275.2; DB 3; Length 9413;

Best Local Similarity 87.6%; Pred. No. 3e-72;

Matches 298; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

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QY 1 CTCGACAGTACTGAGAGACATCCGTACCGAGGATCAATCTATCATGTTGTGACTT 60
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 8261 CTCACGGTCACTGAGATGACATCCGTATGAGAGATCAATTTACCAATGTTGTGACTT 8320
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 61 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTACGTGGGGGCC 120
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 8321 GGGCCCTGAGAGCCCGGCAAGGCATTAAGTCGCTACCGAGCGGCTGTATGTCGGGGGCC 8380
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 121 CCTAACCAATTCAAGGGGCAAGAACTGCGGCTATGCTCGGTCTGCGGCTGCT 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 8381 CCTGACTAATTGAGAGGGGCAAGAACTGCGGCTATGCTCGGCTGCGGCAAGTGGGTGCT 8440
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
QY 181 GACCACTGCTGCGGCAACACCTCTGACATGCTTGAAGGCGGCTGTCGAGC 240
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

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Db 8441 GACGACTAGCTGCGGCAACCCCTCATGTTACTTTGAAGCCACTGCGGCTGTGAGC 8500
Qy 241 TGCAGAGCTCCAGAGCTGAGATGCTGTGCGGAGAGCACTTGTGCTATCTGCA 300.
Db 8501 TGCAGAGCTCCAGAGCTGAGATGCTGTGGAACGAGACGACTTGTGCTATCTGCA 8560
Qy 301 GAGCGCGGAGTTCAGAGAGAGAGCGGCGCACTTGAAGTC 340
Db 8561 GAGTGGGGAGACCCAGAGAGATGCGGCGGCTTACGAGCC 8600

RESULT 11

US-08-441-971-12
Sequence 12, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-May-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528

APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p3
US-08-441-971-12

Query Match 80.0%; Score 272; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CTCGACAGTTACTAGAGACATCCGATCCGAGGATCAATCTATCAATGTTGACTT 60
Db 1 CTCACAGCTCATCTGAGAGCAATCCGTTTGAAGAGTCAATCTACCAATGTTGACTT 60
Qy 61 GGGCCCCGAGGCGCCCAAGCCATTAAGTCTCACCGAGCGGCTGTACGTCGGGGGCC 120
Db 61 GGGCCCCGAGGCGCCAGACAGGCTATAAGTCTCACAGAGCGGCTTTACATCGGGGGTCC 120

Qy 121 CCTACCAATTCAAGGGGAGAACTGGGCTATGTCGTGCGGCTAGCGGCT 180
Db 121 CCTACCAATTCAAGGGGAGAACTGGGCTATGTCGTGCGGCTAGCGGCT 180
Qy 181 GACCAAGCTCCAGAGCTGAGATGCTGTGCGGAGAGCACTTGTGCTATCTGCA 240
Db 181 GACCAAGCTCCAGAGCTGAGATGCTGTGCGGAGAGCACTTGTGCTATCTGCA 240
Qy 241 TGCAGAGCTCCAGAGCTGAGATGCTGTGCGGAGAGCACTTGTGCTATCTGCA 300
Db 241 TGCAGAGCTCCAGAGCTGAGATGCTGTGCGGAGAGCACTTGTGCTATCTGCA 300
Qy 301 GAGCGCGGAGTTCAGAGAGAGAGCGGCGCACTTGAAGTC 340
Db 301 GAGCGCGGAGTTCAGAGAGAGAGCGGCGCACTTGAAGTC 340

RESULT 12

US-08-221-653-12
Sequence 12, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p3
US-08-221-653-12

Query Match 80.0%; Score 272; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CTCGACAGTTACTAGAGACATCCGATCCGAGGATCAATCTATCAATGTTGACTT 60
Db 1 CTCACAGCTCATCTGAGAGCAATCCGTTTGAAGAGTCAATCTACCAATGTTGACTT 60

Db 1 CTCACAGTCACTGAGAGTGAATCCGTGTGAGAGTCAATCTAACATGTTGACTT 60
Qy 61 GGGCCCTGAGGGCCCGAAGCCATTAAGTCTCAACCGCGCGGTGTAGTGGGGGCC 120
Db 61 GGGCCCTGAGGGCCCGAAGCCATTAAGTCTCAACCGCGCGGTGTAGTGGGGGCC 120
Qy 121 CCTAACCAATTCAGAAAGGGGAGAACTGCGGCTATCGTCCGCTGAGCGGCTGCT 180
Db 121 CCTGACTAATTCAGAAAGGGGAGAACTGCGGCTATCGTCCGCTGAGCGGCTGCT 180
Qy 181 GACCAACAGCTGCGGCAACACCTCTCAATGCTATTGAAAGCGAGGGCGGCTGTGAGC 240
Db 181 GACGACTAGTGGGTAATACCTCTCAATGCTATTGAAAGCGAGGGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACAGATGCTGCTGTCGGAAGCACTTGTGTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACAGATGCTGCTGTCGGAAGCACTTGTGTTATCTGTGA 300
Qy 301 GAGCGCGGAGTCCAGAGAGAGCGCGGCGAAGCTTACAGAGTC 340
Db 301 GAGCGCGGAGTCCAGAGAGAGCGCGGCGAAGCTTACAGAGTC 340

RESULT 13

US-08-442-144A-12
Sequence 12, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: Individual Isolate: m55p3
US-08-442-144A-12

Query Match 80.0%; Score 272; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CTCGACAGTTACTGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
Db 1 CTCGACAGTTACTGAGAACGACATCCGTATCCGTGTGAGAGTCAATCTATCAATGTTGACTT 60
Qy 61 GGGCCCTGAGGGCCCGAAGCCATTAAGTCTCAACCGCGCGGTGTAGTGGGGGCC 120
Db 61 GGGCCCTGAGGGCCCGAAGCCATTAAGTCTCAACCGCGCGGTGTAGTGGGGGCC 120
Qy 121 CCTAACCAATTCAGAAAGGGGAGAACTGCGGCTATCGTCCGCTGAGCGGCTGCT 180
Db 121 CCTGACTAATTCAGAAAGGGGAGAACTGCGGCTATCGTCCGCTGAGCGGCTGCT 180
Qy 181 GACCAACAGCTGCGGCAACACCTCTCAATGCTATTGAAAGCGAGGGCGGCTGTGAGC 240
Db 181 GACGACTAGTGGGTAATACCTCTCAATGCTATTGAAAGCGAGGGCGGCTGTGAGC 240
Qy 241 TGCAGAGCTCCAGAGCTGACAGATGCTGCTGTCGGAAGCACTTGTGTTATCTGTGA 300
Db 241 TGCAGAGCTCCAGAGCTGACAGATGCTGCTGTCGGAAGCACTTGTGTTATCTGTGA 300
Qy 301 GAGCGCGGAGTCCAGAGAGAGCGCGGCGAAGCTTACAGAGTC 340
Db 301 GAGCGCGGAGTCCAGAGAGAGCGCGGCGAAGCTTACAGAGTC 340

RESULT 14

US-08-441-970-12
Sequence 12, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5b3
US-08-441-970-12

Query Match
Best Local Similarity 80.0%; Score 272; DB 3; Length 340;
Pred. No. 9e-72;
Matches 296; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
DB 1 CTCACAGCTCACTGAGAGACATCCGTGTTGAGAGATCAATCTACCAATGTTGACTT 60
QY 61 GGGCCCTGAGGCGCCGCAAGGCGCATTAAGTCGCTCAACGAGCGGCTGTACGTGGGGGCC 120
DB 61 GGGCCCGAGGCGCAAGGCGCATTAAGTCGCTCAACGAGCGGCTTTACATCGGGGGTCC 120
QY 121 CCTAACCAATTCAAAAGGGGCAAGACTGCGGCTATCGTGCGGCTAGCGGCGTCT 180
DB 121 CCTGACTAATTCAAAAGGGGCAAGACTGCGGCTATCGCGGCTAGCGGCGGCTCT 180
QY 181 GACCACTAGCTGCGGCAACCCCTCAATGCTTAAAGCGAGGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAATACCTCAATGTTACCTGAAGGCGAGTGGCGGCTGTGAGC 240
QY 241 TGCAAGCTCCAGAGCTGCAAGATGCTGTGCGGAGACGACTTGTCTTATCTGGA 300
DB 241 TGCAAGCTCCAGAGCTGCAAGATGCTGTGCGGAGACGACTTGTCTTATCTGGA 300
QY 301 GAGCGGGAGTGCAGAGAGAGCGGCGAACCCTACGAGTC 340
DB 301 GAGCGGGAGAGCGCAAGAGAGCGGCGAACCCTACGAGTC 340

RESULT 15

US-08-441-971-8

Sequence 8, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSER: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE: US/07/881,528

FILING DATE: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiak, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match
Best Local Similarity 79.5%; Score 270.4; DB 3; Length 340;
Pred. No. 2.7e-71;
Matches 295; Conservative 2; Mismatches 43; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATCCGTACCGAGGATCAATCTATCAATGTTGACTT 60
DB 1 CTCACAGCTCACTGAGAGACATCCGTGTTGAGAGATCAATCTACCAATGTTGACTT 60
QY 61 GGGCCCTGAGGCGCCGCAAGGCGCATTAAGTCGCTCAACGAGCGGCTGTACGTGGGGGCC 120
DB 61 GGGCCCGAGGCGCAAGGCGCATTAAGTCGCTCAACGAGCGGCTTTACATCGGGGGTCC 120
QY 121 CCTAACCAATTCAAAAGGGGCAAGACTGCGGCTATCGTGCGGCTAGCGGCGTCT 180
DB 121 CCTGACTAATTCAAAAGGGGCAAGACTGCGGCTATCGCGGCTAGCGGCGGCTCT 180
QY 181 GACCACTAGCTGCGGCAACCCCTCAATGCTTAAAGCGAGGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTGCGGTAATACCTCAATGTTACCTGAAGGCGAGTGGCGGCTGTGAGC 240
QY 241 TGCAAGCTCCAGAGCTGCAAGATGCTGTGCGGAGACGACTTGTCTTATCTGGA 300
DB 241 TGCAAGCTCCAGAGCTGCAAGATGCTGTGCGGAGACGACTTGTCTTATCTGGA 300
QY 301 GAGCGGGAGTGCAGAGAGAGCGGCGAACCCTACGAGTC 340
DB 301 AAGCGGGAGAGCGAGAGAGTGCAGAGAGTGCAGAGTGCAGAGTC 340

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Job time : 83.331 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-57
Perfect score: 340
Sequence: 1 ctgcgcagctactagcagc.....atcgcgagcactacgagtc 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|--------------------|-------------------|
| 1 | 339.6 | 99.9 | 340 | US-08-836-075A-57 | Sequence 57, Appl |
| 2 | 303.6 | 89.3 | 340 | US-08-836-075A-55 | Sequence 55, Appl |
| 3 | 302 | 88.8 | 340 | US-08-836-075A-53 | Sequence 53, Appl |
| 4 | 278.8 | 82.0 | 340 | US-08-441-971-12 | Sequence 12, Appl |
| 5 | 278.8 | 82.0 | 340 | US-08-221-653-12 | Sequence 12, Appl |
| 6 | 278.8 | 82.0 | 340 | US-08-442-144A-12 | Sequence 12, Appl |
| 7 | 278.8 | 82.0 | 340 | US-08-441-970-12 | Sequence 12, Appl |
| 8 | 277.2 | 81.5 | 1770 | US-08-191-160-3 | Sequence 3, Appl |
| 9 | 277.2 | 81.5 | 3750 | US-08-191-160-22 | Sequence 22, Appl |
| 10 | 275.6 | 81.1 | 340 | US-08-441-971-8 | Sequence 8, Appl |
| 11 | 275.6 | 81.1 | 340 | US-08-441-971-11 | Sequence 11, Appl |
| 12 | 275.6 | 81.1 | 340 | US-08-221-653-8 | Sequence 11, Appl |
| 13 | 275.6 | 81.1 | 340 | US-08-221-653-11 | Sequence 11, Appl |
| 14 | 275.6 | 81.1 | 340 | US-08-442-144A-8 | Sequence 11, Appl |
| 15 | 275.6 | 81.1 | 340 | US-08-442-144A-11 | Sequence 11, Appl |
| 16 | 275.6 | 81.1 | 340 | US-08-441-970-8 | Sequence 11, Appl |
| 17 | 275.6 | 81.1 | 340 | US-08-441-970-11 | Sequence 11, Appl |
| 18 | 275.6 | 81.1 | 1782 | US-09-597-877-11 | Sequence 11, Appl |
| 19 | 275.6 | 81.1 | 9472 | US-08-150-204E-96 | Sequence 96, Appl |
| 20 | 272.4 | 80.1 | 340 | US-09-878-281A-213 | Sequence 213, App |
| 21 | 272.4 | 80.1 | 9595 | US-09-014-416-4 | Sequence 4, Appl |
| 22 | 270.8 | 79.6 | 1773 | US-09-720-095A-1 | Sequence 1, Appl |
| 23 | 267.6 | 78.7 | 340 | US-08-441-971-9 | Sequence 9, Appl |
| 24 | 267.6 | 78.7 | 340 | US-08-221-653-9 | Sequence 9, Appl |

| | | | | | |
|----|-------|------|------|-------------------|-------------------|
| 25 | 267.6 | 78.7 | 340 | US-08-442-144A-9 | Sequence 9, Appl |
| 26 | 267.6 | 78.7 | 340 | US-08-441-970-9 | Sequence 9, Appl |
| 27 | 267.6 | 78.7 | 2991 | US-08-324-977-49 | Sequence 49, Appl |
| 28 | 267.6 | 78.7 | 2991 | US-08-384-616-49 | Sequence 49, Appl |
| 29 | 267.6 | 78.7 | 2991 | US-08-904-686A-49 | Sequence 49, Appl |
| 30 | 267.6 | 78.7 | 2991 | US-09-315-850-49 | Sequence 49, Appl |
| 31 | 267.6 | 78.7 | 7863 | US-08-324-977-35 | Sequence 35, Appl |
| 32 | 267.6 | 78.7 | 7863 | US-08-384-616-35 | Sequence 35, Appl |
| 33 | 267.6 | 78.7 | 7863 | US-08-904-686A-35 | Sequence 35, Appl |
| 34 | 267.6 | 78.7 | 7863 | US-09-315-850-35 | Sequence 35, Appl |
| 35 | 267.6 | 78.7 | 7917 | US-08-324-977-31 | Sequence 31, Appl |
| 36 | 267.6 | 78.7 | 7917 | US-08-384-616-31 | Sequence 31, Appl |
| 37 | 267.6 | 78.7 | 7917 | US-08-904-686A-31 | Sequence 31, Appl |
| 38 | 267.6 | 78.7 | 7917 | US-09-315-850-31 | Sequence 31, Appl |
| 39 | 267.6 | 78.7 | 9030 | US-08-324-977-13 | Sequence 13, Appl |
| 40 | 267.6 | 78.7 | 9030 | US-08-384-616-13 | Sequence 13, Appl |
| 41 | 267.6 | 78.7 | 9030 | US-08-904-686A-13 | Sequence 13, Appl |
| 42 | 267.6 | 78.7 | 9030 | US-09-315-850-13 | Sequence 13, Appl |
| 43 | 267.6 | 78.7 | 9275 | US-10-259-275-39 | Sequence 39, Appl |
| 44 | 267.6 | 78.7 | 9416 | US-08-324-977-1 | Sequence 1, Appl |
| 45 | 267.6 | 78.7 | 9416 | US-08-384-616-1 | Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

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; ANTI-SENSE: NO
US-08-836-075A-57
Query Match          99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 7,76-93;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATTCGTGAGAGAAATCAATCTACAGTCTGTGACTT 60
DB 1 CTCGACAGTTACTGAGAACGACATTCGTGAGAGAAATCAATCTACAGTCTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGATCC 120
DB 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGATCC 120
QY 121 CCTAACCAATCTAAAGGGCAGAACTGCGGCTACCGTCTGCTCGGCGCCAGCGGCTGCT 180
DB 121 CCTAACCAATCTAAAGGGCAGAACTGCGGCTACCGTCTGCTCGGCGCCAGCGGCTGCT 180
QY 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTTGAAAGCCAGGGGCGCTGTGAGC 240
DB 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTTGAAAGCCAGGGGCGCTGTGAGC 240
QY 241 TGCGAAGCTCCAGACTGCAACATGCTGCTGTGCGGAGACGACCTTGTCTGTATCTGTGA 300
DB 241 TGCGAAGCTCCAGACTGCAACATGCTGCTGTGCGGAGACGACCTTGTCTGTATCTGTGA 300
QY 301 GAGTCGCGAGATCGAGAGAGATGCGGCCGCAACCTACGAGTGC 340
DB 301 GAGTCGCGAGATCGAGAGAGATGCGGCCGCAACCTACGAGTGC 340

RESULT 2
US-08-836-075A-55
; Sequence 55, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:

```

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; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHEITICAL: NO
; ANTI-SENSE: NO
US-08-836-075A-55
Query Match          89.3%; Score 303.6; DB 3; Length 340;
Best Local Similarity 92.6%; Pred. No. 5,66-82;
Matches 315; Conservative 3; Mismatches 22; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGAACGACATTCGTGAGAGAAATCAATCTACAGTCTGTGACTT 60
DB 1 CTCGACAGTTACTGAGAACGACATTCGTGAGAGAAATCAATCTACAGTCTGTGACTT 60
QY 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGATCC 120
DB 61 GGGCCCCGAGGCGCCGCAAGGCCATTAAGTCGCTCAACGAGCGGCTGTATATCGGGGATCC 120
QY 121 CCTAACCAATCTAAAGGGCAGAACTGCGGCTACCGTCTGCTCGGCGCCAGCGGCTGCT 180
DB 121 CCTAACCAATCTAAAGGGCAGAACTGCGGCTACCGTCTGCTCGGCGCCAGCGGCTGCT 180
QY 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTTGAAAGCCAGGGGCGCTGTGAGC 240
DB 181 GACTACCAAGCTGCGGTAAATACCTCAATGTTACTTTGAAAGCCAGGGGCGCTGTGAGC 240
QY 241 TGCGAAGCTCCAGACTGCAACATGCTGCTGTGCGGAGACGACCTTGTCTGTATCTGTGA 300
DB 241 TGCGAAGCTCCAGACTGCAACATGCTGCTGTGCGGAGACGACCTTGTCTGTATCTGTGA 300
QY 301 GAGTCGCGAGATCGAGAGAGATGCGGCCGCAACCTACGAGTGC 340
DB 301 GAGTCGCGAGATCGAGAGAGATGCGGCCGCAACCTACGAGTGC 340

RESULT 3
US-08-836-075A-53
; Sequence 53, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995

```

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075a-53

Query Match 88.8%; Score 302; DB 3; Length 340;
Best Local Similarity 92.9%; Pred. No. 1.7e-81;
Matches 314; Conservative 2; Mismatches 22; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGACGACATCGTGCAGGAGATCAATCTACAGTGTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGTGAGAGATCAATATCAATGTTGTGACTT 60
QY 61 GGCCCCCGAGGCGCCAGAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
DB 61 GGCCCCCGAGGCGCCAGAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 121 YCTAACCAATTCMAAAGGAGCAAGACTGCGGCTACCGTGGTCCCGCAGCGGCTGCT 180
QY 181 GACTACAGCTGCGGTAATACCTTCACATGTTACTTGAAGCAGGCGGCTGTGAGC 240
DB 181 GACTACAGCTGCGGTAATACCTTCACATGTTACTTGAAGCAGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGTCTGCTGCGGAGACGACTTGTGTTATCTGTA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGTCTGCTGCGGAGACGACTTGTGTTATCTGTA 300
QY 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAACCTTACGAG 338
DB 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAACCTTACGAG 338

RESULT 4

US-08-441-971-12
Sequence 12, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528

FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-441-971-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

QY 1 CTCGACAGTTACTGAGACGACATCGTGTGAGGATCAATCTACAGTGTGACTT 60
DB 1 CTCGACAGTTACTGAGATGACATCCGTGTGAGAGATCAATCAATGTTGTGACTT 60
QY 61 GGCCCCCGAGGCGCCAGAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
DB 61 GGCCCCCGAGGCGCCAGAGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 121 CCTAACCAATTCMAAAGGAGCAAGACTGCGGCTACCGTGGTCCCGCAGCGGCTGCT 180
QY 181 GACTACAGCTGCGGTAATACCTTCACATGTTACTTGAAGCAGGCGGCTGTGAGC 240
DB 181 GACTACAGCTGCGGTAATACCTTCACATGTTACTTGAAGCAGGCGGCTGTGAGC 240
QY 241 TGCAGAGCTCCAGAGCTGCAAGTCTGCTGCGGAGACGACTTGTGTTATCTGTA 300
DB 241 TGCAGAGCTCCAGAGCTGCAAGTCTGCTGCGGAGACGACTTGTGTTATCTGTA 300
QY 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAACCTTACGAGTC 340
DB 301 GAGTCRGGAGTCCAGAGAGATGCGGCGAACCTTACGAGTC 340

RESULT 5

US-08-221-653-12
Sequence 12, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-221-653-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTAGAGACGACATTCGTCGAGGAATCAATCTACAGTCGTGACTT 60
DB 1 CTCACAGTCACTAGAGAGTACATCCGTTGAGAGATCAATCTACATGTTGACTT 60
QY 61 GGGCCCCGAGGCGCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
DB 61 GGGCCCCGAGGCGAGACAGGCTATTAAGTCGCTCACAGAGCGGCTTTACATCGGGGTC 120
QY 121 CCTAACCACTAAAGGGCAGAACTGGCGGCTACCGTGGTGGCGGCGGCGGCGGTC 180
DB 121 CCTGACTAATTCAAAGGGCAGAACTGGCGGCTATGCGGTCGCGGCAAGGCGGTC 180
QY 181 GACTACGAGCTCGGTAATACCTTCACATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTCGGTAATACCTTCACATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAATGCTGCTGTGCGAGAGCAAGCTTGTCTTATCTGTA 300
DB 241 TGGCAAGCTCCAGAGCTGCAATGCTGCTGTGCGAGAGCAAGCTTGTCTTATCTGTA 300
QY 301 GAGTCGCGAGTCCAGAGAGATGCGGCGCACTTACGAGTC 340
DB 301 GAGCGCGGGGAGCCCAAGAGAGCGGCGGAGCCTTACGAGTC 340

RESULT 6
US-08-442-144A-12
Sequence 12, Application US/08442144A

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: May 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: April 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-442-144A-12

Query Match 82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTAGAGACGACATTCGTCGAGGAATCAATCTACAGTCGTGACTT 60
DB 1 CTCACAGTCACTAGAGAGTACATCCGTTGAGAGATCAATCTACATGTTGACTT 60
QY 61 GGGCCCCGAGGCGCGCAAGGCCATTAAGTCGCTCACCGAGCGGCTGTATATCGGGGTC 120
DB 61 GGGCCCCGAGGCGAGACAGGCTATTAAGTCGCTCACAGAGCGGCTTTACATCGGGGTC 120
QY 121 CCTAACCACTAAAGGGCAGAACTGGCGGCTACCGTGGTGGCGGCGGCGGCGGTC 180
DB 121 CCTGACTAATTCAAAGGGCAGAACTGGCGGCTATGCGGTCGCGGCAAGGCGGTC 180
QY 181 GACTACGAGCTCGGTAATACCTTCACATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTAGCTCGGTAATACCTTCACATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAATGCTGCTGTGCGAGAGCAAGCTTGTCTTATCTGTA 300
DB 241 TGGCAAGCTCCAGAGCTGCAATGCTGCTGTGCGAGAGCAAGCTTGTCTTATCTGTA 300
QY 301 GAGTCGCGAGTCCAGAGAGATGCGGCGCACTTACGAGTC 340
DB 301 GAGCGCGGGGAGCCCAAGAGAGCGGCGGAGCCTTACGAGTC 340

RESULT 7

US-08-441-970-12
Sequence 12, Application US/08441970

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:

```

ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881.528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ep3
US-08-441-970-12

Query Match      82.0%; Score 278.8; DB 3; Length 340;
Best Local Similarity 88.5%; Pred. No. 1.7e-74;
Matches 301; Conservative 1; Mismatches 38; Indels 0; Gaps 0;

Oy 1 CTCGACAGTCTAGTGAAGCAATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Db 1 CTCGACAGTCTAGTGAAGCAATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Oy 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACGAGCGGCTGTATATCGGGGTC 120
Db 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACGAGCGGCTGTATATCGGGGTC 120
Oy 121 CCTAACCACTCAAAAGGCGAAGTGGCGGCTACCGTGGTGGCCGCGAGCGGCTGCT 180
Db 121 CCTAACCACTCAAAAGGCGAAGTGGCGGCTACCGTGGTGGCCGCGAGCGGCTGCT 180
Oy 181 GACTACGAGTGGCGGTAATACCTTCATGTTACTTTAAAGCGAGGGCGCTGCGAGC 240
Db 181 GACTACGAGTGGCGGTAATACCTTCATGTTACTTTAAAGCGAGGGCGCTGCGAGC 240
Oy 241 TGGCAAGTCTCAGAGCTCACAATGCTGCTGCGAGAGCACTTGTGTTATCTGTGA 300
Db 241 TGGCAAGTCTCAGAGCTCACAATGCTGCTGCGAGAGCACTTGTGTTATCTGTGA 300
Oy 301 GAGTGCRCGAGTCCAGAGAGATGCGGCGCAACCTTACGATC 340
Db 301 GAGTGCRCGAGTCCAGAGAGATGCGGCGCAACCTTACGATC 340

```

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APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbra, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSER: Rothwell, Figg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191.160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628.516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5740
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1770 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: clone JG2 from cDNA library in lambda gell
FEATURE:
LOCATION: from 1 to 1770 bp portion of the PT-NANBH
LOCATION: polyprotein
OTHER INFORMATION: probably encodes viral non-structural
OTHER INFORMATION: proteins
US-08-191-160-3

Query Match      81.5%; Score 277.2; DB 3; Length 1770;
Best Local Similarity 88.2%; Pred. No. 9.2e-74;
Matches 300; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

Oy 1 CTCGACAGTCTAGTGAAGCAATTCGTGCGAGATCAATCTACGATGCTGACTT 60
Db 1281 CTCGACAGTCTAGTGAAGCAATTCGTGCGAGATCAATTCGATGCTGACTT 1340
Oy 61 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACGAGCGGCTGTATATCGGGGTC 120
Db 1341 GGGCCCCGAGGCGCCGCAAGCCATTAAGTCGCTCACGAGCGGCTGTATATCGGGGTC 1400
Oy 121 CTCGACAGTCAAAAGGCGAAGTGGCGGCTACCGTGGTGGCCGCGAGCGGCTGCT 180
Db 1401 CTCGACAGTCAAAAGGCGAAGTGGCGGCTACCGTGGTGGCCGCGAGCGGCTGCT 1460

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OY 181 GACTACGAGCTGCGGTAAATACCTCATGTTACTTGAAGCCAGGCGGCTGTGAGC 240
DB 1461 GACGACTGAGCTGCGGTAAATACCTCATGTTACTTGAAGCCCTTGCAAGCTGTGAGC 1520
OY 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGTGCGAGAGCAGACTGTGTTATCTGTGA 300
DB 1521 TGCAGAGCTCCAGAGCTGCAACATGCTGTGTGCGAGAGCAGACTGTGTTATCTGTGA 1580
OY 301 GAGTCRGAAGTCCAGAGAGATGCGGCGCAACTTACGAGTC 340
DB 1581 GAGCGCGGAGACCCAGAGAGAGCGCGGAGCTTACGAGTC 1620

RESULT 9
US-08-191-160-22
; Sequence 22, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figs, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony F199
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5740
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 3750 base pairs
TYPE: nucleotide with corresponding protein
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to genomic RNA
ORIGINAL SOURCE:
ORGANISM: human; serum infectious for PT-NANBH
IMMEDIATE SOURCE:
LIBRARY: cDNA clones from 3' end of the genome
FEATURE:
LOCATION: from 1 to 3750 bp portion of the PT-NANBH
LOCATION: polyprotein

OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22
Query Match 81.5%; Score 277.2; DB 3; Length 3750;
Best Local Similarity 86.2%; Pred. No. 1.2e-73;
Matches 300; Conservative 1; Mismatches 39; Indels 0; Gaps 0;
OY 1 CTCGACAGTTACTAGAGACACATTCGTGTGAGAGATCATATCAACAGTGTGACTT 60
DB 3261 CTCGACAGTTACTAGAGATGATATCCGTGTAGAGATCATATTAATGTTGTGACTT 3320
OY 61 GGGCCCCGAGGCGCGCAAGCCATTAAGTGTCTGACCCAGCGGCTGTATATCGGGGCTCC 120
DB 3321 GGGCCCCGAGGCGCGCAAGCCATTAAGTGTCTGACCCAGCGGCTGTATATCGGGGCTCC 3380
OY 121 CCTAACCACTCAAAAGGCGAGAACTGGGCTACCGTGGTGGCGGCGGCGGCTGCT 180
DB 3381 CCTAACCACTCAAAAGGCGAGAACTGGGCTATCGCGGCTGTATATCGGGGCTCC 3440
OY 181 GACTACGAGCTGCGGTAAATACCTCATGTTACTTGAAGCCAGGCGGCTGTGAGC 240
DB 3441 GACGACTGAGCTGCGGTAAATACCTCATGTTACTTGAAGCCCTTGCAAGCTGTGAGC 3500
OY 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGTGCGAGAGCAGACTGTGTTATCTGTGA 300
DB 3501 TGCAGAGCTCCAGAGCTGCAACATGCTGTGTGCGAGAGCAGACTGTGTTATCTGTGA 3560
OY 301 GAGTCRGAAGTCCAGAGAGATGCGGCGCAACTTACGAGTC 340
DB 3561 GAGCGCGGAGACCCAGAGAGAGCGCGGAGCTTACGAGTC 3600

RESULT 10
US-08-441-971-8
; Sequence 8, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 MAY 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-971-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACACTTACTGAGAGACATTCGTGAGAGATCAATCTACAGTCTGTGACTT 60
DB 1 CTCACGGGTCACTGAGATGACATCTGTGAGAGATCAATTTACAAAGTTGTGACTT 60
QY 61 GGCCCCGAGGCGCCGCAAGGCGCATTAAGTCTGCTCACCGAGGCGCTGTATATCGGGGCTCC 120
DB 61 GGCCCCGAGGCGCCGCAAGGCGCATTAAGTCTGCTCACAGAGGCGCTTTACATCGGGGCGCC 120
QY 121 CCTAACCACTCAAAAGGCGAGACTGCGGCTACCTGCTGCTGCGCGCCAGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGCGGCTATGCGCGCATGCGCGCCAGCGGCTGCT 180
QY 181 GACTACCACTGCGGCTATATACCTTCAATGTTACTTGAAGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGCTATATACCTTCAATGTTACTTGAAGCGAGCTGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGCGGAGACGCTTGTCTATCTGTGA 300
DB 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGCGGAGACGACTTGTCTATCTGTGA 300
QY 301 GAGTGCRCGAGTGCAGAGAGATGCGGCGAACCCTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCGAACCCTACGAGTC 340

RESULT 11

US-08-441-971-11
Sequence 11, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.

REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-971-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACACTTACTGAGAGACATTCGTGAGAGATCAATCTACAGTCTGTGACTT 60
DB 1 CTCACAGTCACTGAGATGACATCTGTGAGAGATCAATTTACCAATGTTGTGACTT 60
QY 61 GGCCCCGAGGCGCCGCAAGGCGCATTAAGTCTGCTCACCGAGGCGCTGTATATCGGGGCTCC 120
DB 61 GGCCCCGAGGCGCCGCAAGGCGCATTAAGTCTGCTCACAGAGCGGCTGTATATCGGGGCTCC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGCGGCTACCTGCTGCTGCGCGCCAGCGGCTGCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGCGGCTATGCGCGCATGCGCGCCAGCGGCTGCT 180
QY 181 GACTACCACTGCGGCTATATACCTTCAATGTTACTTGAAGCGAGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGCTATATACCTTCAATGTTACTTGAAGCGCTGTGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGCGGAGACGACTTGTCTATCTGTGA 300
DB 241 TGGCAAGCTCCAGAGCTGCAACATGCTGTGCGGAGACGACTTGTCTATCTGTGA 300
QY 301 GAGTGCRCGAGTGCAGAGAGATGCGGCGAACCCTACGAGTC 340
DB 301 GAGCGCGGGAACCCAGAGAGATGCGGCGAACCCTACGAGTC 340

RESULT 12

US-08-221-653-8
Sequence 8, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528

FILED DATE: 07/697.326
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-221-653-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTGCGAGGATCAATCTACAGTGTGACTT 60
DB 1 CTCACGCTGCTGAGATGACATCCGTGTTGAGAGTCAATTTTCAAAAGTTGACTT 60
QY 61 GGGCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACGAGCGGCTGTATTCGAGGCTCC 120
DB 61 GGGCCCGAGGCGAGACAGCATTAAGTCGCTCACAGGCGGCTTTATCATCGGGGCC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGGCCGCCAGCGGCTCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGGCGGCTATGCGCGATGCCCGCGAGGGTGTCT 180
QY 181 GACTACGAGTGGCGGTAAATCCCTCAATGTTACTTGAAGGCGAGGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGTAAATCCCTCAATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGACTGCACAATGCTGTGCGAGAGCACTTGTGTTATCTGTGA 300
DB 241 TGGCAAGCTCCAGACTGCACAATGCTGTGCGAGAGCACTTGTGTTATCTGTGA 300
QY 301 GAGTGCRCGAGTCCAGAGAGATGGCGGCACTTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGGCGGCACTTACGAGTC 340

RESULT 13
US-08-221-653-11
Sequence 11, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-221-653-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

QY 1 CTCGACAGTACTGAGAACGACATTCGTGCGAGGATCAATCTACAGTGTGACTT 60
DB 1 CTCACGCTGCTGAGATGACATCCGTGTTGAGAGTCAATTTTCAAAAGTTGACTT 60
QY 61 GGGCCCGAGGCGCCCAAGGCCATTAAGTCGCTCACGAGCGGCTGTATTCGAGGCTCC 120
DB 61 GGGCCCGAGGCGAGACAGCATTAAGTCGCTCACAGGCGGCTTTATCATCGGGGCC 120
QY 121 CCTAACCACTCAAAAGGCGAGAACTGGCGGCTACCGTGGTGGCCGCCAGCGGCTCT 180
DB 121 CCTGACTAATTCAAAGGCGAGAACTGGCGGCTATGCGCGATGCCCGCGAGGGTGTCT 180
QY 181 GACTACGAGTGGCGGTAAATCCCTCAATGTTACTTGAAGGCGAGGGCGGCTGTGAGC 240
DB 181 GACGACTGCTGCGGTAAATCCCTCAATGTTACTTGAAGGCGAGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGACTGCACAATGCTGTGCGAGAGCACTTGTGTTATCTGTGA 300
DB 241 TGGCAAGCTCCAGACTGCACAATGCTGTGCGAGAGCACTTGTGTTATCTGTGA 300
QY 301 GAGTGCRCGAGTCCAGAGAGATGGCGGCACTTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGGCGGCACTTACGAGTC 340

RESULT 14
US-08-442-144A-8
Sequence 8, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville

APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-221-653-11

STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-442-144A-8

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;
QY 1 CTCGACACTTACTGAGACGACATTCGTGAGAGAACTTACCTGCTGACTT 60
DB 1 CTCACGCTGACTGAGATGACATCCGTGTGAGAGATCAATTACCAAGTTGACTT 60
QY 61 GGGCCCCGAGGCCCCGACAGCCATTAAGTCCTCACCGAGCGGCTGTATTCGGGGGTC 120
DB 61 GGGCCCCGAGGCCCCGACAGCCATTAAGTCCTCACCGAGCGGCTGTATTCGGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAAGACTGCGGCTACCGTGGTGCAGCGCGCT 180
DB 121 CCTGACTAATTCAAAAGGCGCAAGACTGCGGCTACCGTGGTGCAGCGCGCT 180
QY 181 GACTACCACTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGCGGCTGTGAGC 240
DB 181 GACGACTGAGCTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAATATGCTGTGCGGAGAGCACTTGTGTTATCTGGA 300
DB 241 TGGCAAGCTCCAGAGCTGCAATATGCTGTGCGGAGAGCACTTGTGTTATCTGGA 300
QY 301 GAGTGCAGAGTTCGAGAGAGATGCGGCAACTTACGAGTC 340
DB 301 AAGCGCGGGAACCCAGAGAGATGCGGCAACTTACGAGTC 340

RESULT 15
US-08-442-144A-11
Sequence 11, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-442-144A-11

Query Match 81.1%; Score 275.6; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 1.6e-73;
Matches 299; Conservative 1; Mismatches 40; Indels 0; Gaps 0;
QY 1 CTCGACGTTACTGAGACGACATTCGTGAGAGAACTTACCTACAGTCTGTGACTT 60
DB 1 CTCACAGTCACTGAGAGTACATCCGTGTGAGAGATCAATTACCAATGTTGACTT 60
QY 61 GGGCCCCGAGGCCCCGACAGCCATTAAGTCCTCACCGAGCGGCTGTATTCGGGGGTC 120
DB 61 GGGCCCCGAGGCCCCGACAGCCATTAAGTCCTCACCGAGCGGCTGTATTCGGGGGTC 120
QY 121 CCTAACCACTCAAAAGGCGCAAGACTGCGGCTACCGTGGTGCAGCGCGCTGTGAGC 180
DB 121 CCTGACTAATTCAAAAGGCGCAAGACTGCGGCTACCGTGGTGCAGCGCGCTGTGAGC 180
QY 181 GACTACCACTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGCGGCTGTGAGC 240
DB 181 GACGACTGAGCTGCGGTATATCCCTCAATGTTACTTGAAGCCAGGGCGGCTGTGAGC 240
QY 241 TGGCAAGCTCCAGAGCTGCAATATGCTGTGCGGAGAGCACTTGTGTTATCTGGA 300
DB 241 TGGCAAGCTCCAGAGCTGCAATATGCTGTGCGGAGAGCACTTGTGTTATCTGGA 300
QY 301 GAGTGCAGAGTTCGAGAGAGATGCGGCAACTTACGAGTC 340
DB 301 GAGCGCGGGAACCCAGAGAGATGCGGCAACTTACGAGTC 340

Search completed: January 11, 2006, 10:56:29
Job time : 83.331 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 157.882 Seconds

(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075b-59

Perfect score: 652
Sequence: 1 cgtacagcccccagaccaccc.....acctcatgggtacatccg 652Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 650 | 99.7 | 652 | 3 | US-08-836-075A-59 |
| 2 | 579.6 | 88.9 | 1499 | 2 | US-08-324-977-3 |
| 3 | 579.6 | 88.9 | 1499 | 2 | US-08-384-616-3 |
| 4 | 579.6 | 88.9 | 1499 | 2 | US-08-904-686A-3 |
| 5 | 579.6 | 88.9 | 1499 | 2 | US-09-315-850-3 |
| 6 | 579.6 | 88.9 | 2116 | 3 | US-08-191-160-21 |
| 7 | 579.6 | 88.9 | 9416 | 2 | US-08-324-977-1 |
| 8 | 579.6 | 88.9 | 9416 | 2 | US-08-384-616-1 |
| 9 | 579.6 | 88.9 | 9416 | 2 | US-08-904-686A-1 |
| 10 | 579.6 | 88.9 | 9416 | 3 | US-09-315-850-1 |
| 11 | 579.6 | 88.9 | 9416 | 3 | US-08-823-895A-27 |
| 12 | 576.4 | 88.4 | 780 | 3 | US-08-474-700B-45 |
| 13 | 575.6 | 88.3 | 9379 | 3 | US-08-444-818-176 |
| 14 | 575.6 | 88.3 | 9401 | 6 | PCT-US91-02225-9 |
| 15 | 575.4 | 88.3 | 1863 | 2 | US-08-470-426B-13 |
| 16 | 575.4 | 88.3 | 1863 | 2 | US-08-470-426B-14 |
| 17 | 574.8 | 88.2 | 923 | 6 | US-08-869-380-1 |
| 18 | 574.8 | 88.2 | 923 | 6 | PCT-US95-13552-14 |
| 19 | 574.8 | 88.2 | 9401 | 2 | US-08-432-693-1 |
| 20 | 574.8 | 88.2 | 9416 | 3 | US-08-811-566-19 |
| 21 | 574.8 | 88.2 | 9416 | 3 | US-09-034-756-19 |
| 22 | 574.8 | 88.2 | 9416 | 3 | US-08-823-895A-26 |
| 23 | 574.8 | 88.2 | 9416 | 3 | US-10-104-966-13 |
| 24 | 574.8 | 88.2 | 9416 | 3 | US-09-929-955-13 |

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|----|-------|------|-------|---|-------------------|--------------------|
| 25 | 574.8 | 88.2 | 9595 | 3 | US-09-014-416-4 | Sequence 4, Appl1 |
| 26 | 574.8 | 88.2 | 9599 | 3 | US-09-014-416-2 | Sequence 2, Appl1 |
| 27 | 574.8 | 88.2 | 9599 | 3 | US-09-014-416-6 | Sequence 6, Appl1 |
| 28 | 574.8 | 88.2 | 9646 | 3 | US-08-811-566-1 | Sequence 1, Appl1 |
| 29 | 574.8 | 88.2 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appl1 |
| 30 | 574.8 | 88.2 | 10803 | 3 | US-10-259-275-17 | Sequence 17, Appl1 |
| 31 | 574.8 | 88.2 | 12980 | 3 | US-08-811-566-5 | Sequence 5, Appl1 |
| 32 | 574.8 | 88.2 | 12980 | 3 | US-09-034-756-5 | Sequence 5, Appl1 |
| 33 | 573.2 | 87.9 | 9185 | 3 | US-08-444-818-122 | Sequence 122, App |
| 34 | 573.2 | 87.9 | 9185 | 3 | US-08-444-818-123 | Sequence 123, App |
| 35 | 573.2 | 87.9 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl1 |
| 36 | 573.2 | 87.9 | 9379 | 3 | US-09-388-874-1 | Sequence 1, Appl1 |
| 37 | 573.2 | 87.9 | 9379 | 3 | US-09-316-359-1 | Sequence 1, Appl1 |
| 38 | 573.2 | 87.9 | 9401 | 2 | US-07-910-760-9 | Sequence 9, Appl1 |
| 39 | 573.2 | 87.9 | 9401 | 2 | US-08-440-519-9 | Sequence 9, Appl1 |
| 40 | 573.2 | 87.9 | 9401 | 3 | US-08-440-519-9 | Sequence 9, Appl1 |
| 41 | 573.2 | 87.9 | 9401 | 3 | US-08-823-895A-25 | Sequence 25, Appl1 |
| 42 | 573.2 | 87.9 | 9413 | 3 | US-08-150-204E-96 | Sequence 96, Appl1 |
| 43 | 569 | 87.3 | 9413 | 3 | US-09-827-688-6 | Sequence 6, Appl1 |
| 44 | 549.2 | 84.2 | 665 | 3 | US-08-444-818-94 | Sequence 94, Appl1 |
| 45 | 549.2 | 84.2 | 665 | 3 | US-08-444-818-95 | Sequence 95, Appl1 |

ALIGNMENTS

RESULT 1
US-08-836-075A-59
; Sequence 59, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 59:
; LENGTH: 652 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-59

Query Match 99.7%; Score 650; DB 3; Length 652;
Best Local Similarity 100.0%; Pred. No. 2,4e-173;
Matches 652; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TACACCGGAATTGCGAGACGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTGGA 120
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DB 121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTGTGGTGGTGGGAAAGGCTTGG 180
QY 181 TGGTACTGCGTATAGGAGTGTGGTGTGGAGTGGCCGCGGAGGTCTGTAGACCGTGACCAT 240
DB 181 TGGTACTGCGTATAGGAGTGTGGTGTGGAGTGGCCGCGGAGGTCTGTAGACCGTGACCAT 240
QY 241 GAGCAGCAATCTTAACTCAAGAAAAACCAAAAGAAACCAACCGCGCCGACAGAGA 300
DB 241 GAGCAGCAATCTTAACTCAAGAAAAACCAAAAGAAACCAACCGCGCCGACAGAGA 300
QY 301 CGTCAAGTTCGCGGCGGTGGCCAGATGCTTGTGTGATCTAAGTCTACCGCCGAGGGG 360
DB 301 CGTCAAGTTCGCGGCGGTGGCCAGATGCTTGTGTGATCTAAGTCTACCGCCGAGGGG 360
QY 361 CCTAGATTGGAGTGGCGGAGCGCGGAGAACTTCGAGGCGGTGCAACCTCGTGGAG 420
DB 361 CCTAGATTGGAGTGGCGGAGCGCGGAGAACTTCGAGGCGGTGCAACCTCGTGGAG 420
QY 421 GCGCCACCTATTTCCCAAGAGCGCGGACCGGAGGAGCTCTGTGGCGCAACCGCGGTGA 480
DB 421 GCGCCACCTATTTCCCAAGAGCGCGGACCGGAGGAGCTCTGTGGCGCAACCGCGGTGA 480
QY 481 CCCCTGCGCTCTATGTGTAAGAGAGGCTGGGGGTGGGCAAGTNGGCTCTGTCCCTCG 540
DB 481 CCCCTGCGCTCTATGTGTAAGAGAGGCTGGGGGTGGGCAAGTNGGCTCTGTCCCTCG 540
QY 541 CGGCTCCGCTCTAGTGGGGTCTCTAGACCCCGGCGGTAGTCAAGCAATTTGGGTAA 600
DB 541 CGGCTCCGCTCTAGTGGGGTCTCTAGACCCCGGCGGTAGTCAAGCAATTTGGGTAA 600
QY 601 GGTCAATGATACCTCAAGTGTGTGTCGCGACCTCATGAGGTAATACCG 652
DB 601 GGTCAATGATACCTCAAGTGTGTGTCGCGACCTCATGAGGTAATACCG 652

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RESULT 2
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339

GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006

COMPUTER READABLE FORM:

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MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 28-DEC-1990
APPLICATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
ID NO: 1"
US-08-324-977-3

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Query Match 88.9%; Score 579.6; DB 2; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAACCGGTGAG 60
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QY 61 TACACCGGAATTGCGAGACGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTGGA 120
DB 155 TACACCGGAATTGCGAGACGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTGGA 214
QY 121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTGTGGTGGTGGGAAAGGCTTGG 180
DB 215 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTGTGGTGGTGGGAAAGGCTTGG 274
QY 181 TGGTACTGCGTATAGGAGTGTGGTGTGGAGTGGCCGCGGAGGTCTGTAGACCGTGACCAT 240
DB 275 TGGTACTGCGTATAGGAGTGTGGTGTGGAGTGGCCGCGGAGGTCTGTAGACCGTGACCAT 334
QY 241 GAGCAGCAATCTTAACTCAAGAAAAACCAAAAGAAACCAACCGCGCCGACAGAGA 300

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Db      335 GAGCAGCATCTTAACCTTAAGAAAAACCAACGTAACCAACCGCCGCCACAGGA 394
Qy      301 CGTCAAGTTCCCGGGCGGTGGCCAGATGTTGGTGAATCTACGTTACCGGCGAGGG 360
Db      395 CGTCAAGTTCCCGGGCGGTGGCCAGATGTTGGTGAATCTACGTTACCGGCGAGGG 454
Qy      361 CCTAGATTGGGTGTGCGCGAGCGCGAGAGACTTCGAGCGGTGCGAACCCTCGTGGAG 420
Db      455 CCCAGGTTGGGTGTGCGCGAGCGCGAGAGACTTCGAGCGGTGCGAACCCTCGTGGAG 514
Qy      421 GCGCAACTTCTTCCAGAGAGCGCGACCCGAGGCGAGTCTGGGCGCGACCCCGGTA 480
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Qy      481 CCCGTCGCCCTCTATGTGTAACGAGGCGGTGGGCGGTGGGCGAGTGGGCTCCGTCCTCG 540
Db      575 CCTTGGCTCTCTATGGCAATGAGGGCTTAGGGGCGAGAGTGGCTCTGTAACCCCG 634
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RESULT 3

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US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.

```

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; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; NAME/KEY: misc feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
; OTHER INFORMATION: ID NO: 1"
US-08-384-616-3

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Query Match      88.9%; Score 579.6; DB 2; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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Qy      61  TACACCGGAATTGCGAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATCTGGA 120
Db      155  TACACCGGAATTGCGAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATCTGGA 214
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Qy      421  GCGCAACTTCTTCCAGAGAGCGCGACCCGAGGCGAGTCTGGGCGCGACCCCGGTA 480
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Qy      481  CCCGTCGCCCTCTATGTGTAACGAGGCGGTGGGCGGTGGGCGAGTGGGCTCCGTCCTCG 540
Db      575  CCTTGGCTCTCTATGGCAATGAGGGCTTAGGGGCGAGAGTGGCTCTGTAACCCCG 634
Qy      541  CGGCTCCCGCTCTATGGTGGGTCTTACTGACCCCGCGGTAGTCAACGCAATTTGGTAA 600
Db      635  CGGCTCCCGCTCTATGGTGGGTCTTACTGACCCCGCGGTAGTCAACGCAATTTGGTAA 694
Qy      601  GGTCAATGATACCTCTACGTTGTTGTTGCGGACCTCATGGGGTACATACCG 652
Db      695  GGTCAATGATACCTCTACGTTGTTGTTGCGGACCTCATGGGGTACATACCG 746

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RESULT 4

US-08-904-686A-3
Sequence 3, Application US/08904686A
Patent No. 5998130
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686A
FILING DATE: 01-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
ID NO: 1"
US-08-904-686A-3

Query Match 88.9%; Score 579.6; DB 2; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2,2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
QY 1 CGTACGCTTCACGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGGACCCGGTGA 60
DB 95 CGTACGCTTCACGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGGACCCGGTGA 154
QY 61 TACACCGGAATTGCGAGAGACCGGGTCTTCTTGATCAACCCGCTCAATGCTTGA 120
DB 155 TACACCGGAATTGCGAGAGACCGGGTCTTCTTGATCAACCCGCTCAATGCTTGA 214
QY 121 GATTGGGCGTCCCGGCAAGACTGCTACCGAGTAGTGTGGTTCGGAAGCCCTTG 180
DB 215 GATTGGGCGTCCCGGCAAGACTGCTACCGAGTAGTGTGGTTCGGAAGCCCTTG 274
QY 181 TGGTACTGCTGATAGGCTCTTCCGAGTCCCGGAGAGTCTTCGTAACCGTGCACAT 240
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QY 241 GAGCAGGATCCTTAACCTCAAGAAAAACCAAGAAACACCAACCGCCGCAAGCA 300
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QY 301 CGTCAAGTCCCGGCGGTGCGCAGATCGTTGTGAGTCTAGCTGCTACCGCGCAGGG 360
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DB 455 CCCGAGTTGGGTGTGCGCGCAGCGGAGACTTGGAGACGCTCGACACTGTGTGGAG 514
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QY 481 CCCCTGCCCCCTATGATGACGAGGCTGCGGTGGGAGTGGCTGTCTGCTCCCTCG 540
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DB 635 CCGCTCCGCTCTAGTGGGTCTTACTGACCCCGCGTGAAGTCAAGCAATTTGGTAA 694
QY 601 GGTATGATACCTCAAGTGTGNTGCCGACCTGATGGGGTACATACCG 652
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RESULT 5
US-09-315-850-3
Sequence 3, Application US/09315850
Patent No. 6217872
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
STREET: 1725 K St. N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904,686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324,977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"
US-09-315-850-3
Query Match 88.9%; Score 579.6; DB 3; Length 1499;
Best Local Similarity 92.9%; Pred. No. 2.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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Qy 421 GCGCAACTATTTCGAAGACCGCGACCCGAGGAGGTCTGTGGCGAGCCCGGATA 480
Db 515 GCGACAACCTATCCCAAGGCTCGCGCCGAGGAGGAGGACCTGGGCTCAGCCGGGTA 574
Qy 481 CCCCTGGCCCTCTATATGTAACGAGGCTCGGCTGGGCGAGTNGGCTCTGTCCTCG 540
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RESULT 6
US-08-191-160-21
Sequence 21, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figg, Ernst & Kurz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744

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; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 2116 base pairs
;   TYPE: nucleotide with corresponding protein
;   STRANDEDNESS: single
;   TOPOLOGY: linear
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; ORIGINAL SOURCE:
;   ORGANISM: human; serum infectious for PT-NANBH
;   IMMEDIATE SOURCE:
;   LIBRARY: cDNA clones from 5' end of the genome
;   LOCATION: from 308 to 2116 bp start of the PT-NANBH
;   LOCATION: polyprotein
;   OTHER INFORMATION: viral structural and non-structural
;   OTHER INFORMATION: proteins
;
US-08-191-160-21

Query Match      88.9%; Score 579.6; DB 3; Length 2116;
Best Local Similarity 92.9%; Pred. No. 2.5e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 601 GGTATGATACCTCAAGTGTGTTGTCGCGACCTCAATGGGGTACATACCG 652
DB 670 AGTCATGATACCTCAAGTGTGTCGCGACCTCAATGGGGTACATTCG 721

RESULT 7
US-08-324-977-1
; Sequence 1, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
```

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; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 658-2930
; TELEFAX: (202) 887-0357
;
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9416 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
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;   LOCATION: 333..9362
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US-08-324-977-1

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Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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DB 95 CGTGAGGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTAG 154
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Db 695 GGTATGATGATACCTCCTCACATGCGGCTTCGCCGATCTCATGTGGGTACATTCGCG 746

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RESULT 9
US-08-904-686A-1
; Sequence 1, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcleland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9416 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..9362
; US-08-904-686A-1

Query Match 88.9%; Score 579.6; DB 2; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy 1 GGTACAGCTTCACAGAGCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG 60
Db 95 CGTACAGCTTCACAGAGCCCTCCCGGAGAGCCATATGCTTCGCGAACCCTGTAG 154
Qy 61 TACACCGGAATTTGCAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTTGA 120
Db 155 TACACCGGAATTTGCAGAGAGACCGGGTCTTTCTTGATCAACCCGCTCAATGCTTGA 214
Qy 121 GATTGGCGGTGCCCCCGCAAGACTGTACCCAGTAGTGTGGTTCGAAAGCCTTG 180
Db 215 GATTGGCGGTGCCCCCGCAAGACTGTACCCAGTAGTGTGGTTCGAAAGCCTTG 274
Qy 181 TGTACTGCTGATAGGAGTCTTCCAGTGTCCCGGAGAGTCTCTAGACCTGTGACCAT 240
Db 275 TGTACTGCTGATAGGAGTCTTCCAGTGTCCCGGAGAGTCTCTAGACCTGTGACCAT 334
Qy 241 GAGCAGAAATCCTAAACCTCAAGAAACCAAGAAACCAACCAACCGCCCAAGAGA 300
Db 335 GAGCAGAAATCCTAAACCTCAAGAAACCAAGAAACCAACCAACCGCCCAAGAGA 394
Qy 301 CGTCAAGTTCGCGGCGGTGAGCAGATCGTTGTGAGTCTAGCTGACCGCGAGAG 360
Db 395 CGTCAAGTTCGCGGCGGTGAGTCTAGTCTGTGAGTCTAGCTGACCGCGAGAG 454
Qy 361 CCTAAGTTGGGTGTGCGCGCAGCGGAGAGACTTGTGAGACCGGTTCGAACTGTGGAG 420
Db 455 CCCAGGTTGGGTGTGCGCGCAGCGGAGAGACTTGTGAGACCGGTTCGAACTGTGGAG 514
Qy 421 GCGCAACCTATTCCCAAGAGAGCGACCCGAGAGGAGGTCTGTGGCGGAGCCGGGTA 480
Db 515 GCGCAACCTATTCCCAAGAGAGCGACCCGAGAGGAGGTCTGTGGCGGAGCCGGGTA 574
Qy 481 CCCCTGCCCCCTTATGTAGACAGAGGCTGCGGTGGCAAGTGTGCTCTGTCCCTCG 540
Db 575 CCCCTGCCCCCTTATGTAGACAGAGGCTGCGGTGGCAAGTGTGCTCTGTCCCTCG 634
Qy 541 CCGTCCCGTCTAGTGTGGGTCTTACTGACCCCGCGCTAGAGTCAACGCAATTGGGTAA 600
Db 635 CCGTCCCGTCTAGTGTGGGTCTTACTGACCCCGCGCTAGAGTCAACGCAATTGGGTAA 694
Qy 601 GGTATGATGATACCTCCTGATGNTTGGCGGACCTCATGGGGTACATACCG 652
Db 695 GGTATGATGATACCTCCTGATGNTTGGCGGACCTCATGGGGTACATACCG 746

RESULT 10
US-09-315-850-1
; Sequence 1, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westernman, Hattori, Mcleland &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
; COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315, 850
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/904, 686
FILING DATE: 01-AUG-1997
APPLICATION NUMBER: US 08/324, 977
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099, 706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769, 996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635, 451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mclelland, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
FAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: linear
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 333..9362
US-09-315-850-1

Query Match      88.9%; Score 579.6; DB 3; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
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Db      395 GCATCAATGCCGCGCGGTGATCGTTGGTAGATTACCTGTGCCGCGCAGGAG 454
Qy      361 CCTAGATGGGCTGTGGCCGACGCGGAGACTTGGAGCGGACCTGTGGAG 420
Db      455 CCCAGGTGGGTGTGGCCGCGCGGAGAAAGACTTCCGACGGTCCGAACCTGTGGAG 514
Qy      421 GCGCAACTATTCCCAAGAGCGCGACCCGAGGAGGCTCTGGGCGAGCCGAGTA 480
Db      515 GCGAACAACCTATCCCAAGGCTCGCCGCGCGAGGAGGAGACTGTGACCCGAGTA 574
Qy      481 CCCCTGCCCCCTATATGTAACGAGGCTGCGGCTGGCAGTNGCTCTGTCCTCG 540
Db      575 CCCTGGCTCTCTATGGAATGAGGGCTTAGGGTGGGACAGATGGCTCTGTCAACCCG 634
Qy      541 CCGTCCCGCTTATGTTGGGCTCTACTAGCCCCCGCTTATGAGTCAAGCAATTGGTAA 600
Db      635 CCGCTCCCGCTTATGTTGGGCTCTACTAGCCCCCGCTTATGAGTCAAGCAATTGGTAA 694
Qy      601 GGTATCATATACCTCAAGTGTGTTGCGCCGACCTCATGGGTAACATACCG 652
Db      695 GGTATCATATACCTCAAGTGTGTTGCGCCGACCTCATGGGTAACATACCG 746

RESULT 11
US-08-823-895A-27
Sequence 27, Application US/08823895A
Patent No. 6433159
GENERAL INFORMATION:
APPLICANT: Kevin P. Anderson
TITLE OF INVENTION: Compositions And Methods For
TITLE OF INVENTION: Treatment Of Hepatitis C Virus-Associated Diseases
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jane Massey Licata, Esq.
STREET: 66 E. Main Street
CITY: Marlton
STATE: NJ
COUNTRY: USA
ZIP: 08053
COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
COMPUTER: IBM 486
OPERATING SYSTEM: WINDOWS FOR WORKGROUPS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/823, 895A
FILING DATE: March 17, 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/453, 085
FILING DATE: May 30, 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/945, 289
FILING DATE: September 10, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Jane Massey Licata
REGISTRATION NUMBER: 32,257
REFERENCE/DOCKET NUMBER: ISPH-0203
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 779-2400
FAX: (609) 810-1454
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416
TYPE: Nucleic
STRANDEDNESS: Single
TOPOLOGY: Linear
ANTI-SENSE: NO
US-08-823-895A-27

Query Match      88.9%; Score 579.6; DB 3; Length 9416;
Best Local Similarity 92.9%; Pred. No. 4.2e-153;
Matches 606; Conservative 0; Mismatches 46; Indels 0; Gaps 0;
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QY      1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGTGGAAACCGGTGAG 60
Db      95 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGTGGAAACCGGTGAG 154
QY      61 TACACCGGAATTGCGAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATCCTGGA 120
Db      155 TACACCGGAATTGCGAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATCCTGGA 214
QY      121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTTGGGTGCGAAAGGCTTGG 180
Db      215 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTTGGGTGCGAAAGGCTTGG 274
QY      181 TGTACTGCTGATAGGAGTGTGTGGAGTGTGCGGAGGCTCTGTAGACCGTGACCAT 240
Db      275 TGTACTGCTGATAGGAGTGTGTGGAGTGTGCGGAGGCTCTGTAGACCGTGACCAT 334
QY      241 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAAAGAAACCAACCGCGCCGACAGGA 300
Db      335 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAAAGTAACCAACCGCGCCGACAGGA 394
QY      301 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGGAATCTACGTGCTACCGCGCAGGGG 360
Db      395 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGGAATCTACGTGCTACCGCGCAGGGG 454
QY      361 CCCTAGATTGGGTGTGCGGAGCGCGAGAGCTTCGAGCGGTGCAACCTCGTGGAG 420
Db      455 CCCAGGTTGGGTGTGCGGAGCGCGAGAGAGCTTCGAGCGGTGCAACCTCGTGGAG 514
QY      421 GCGCAACCTATTCCCAAGAGCGCGCAACCGAGGGCAGTCTGGGCGCAACCGCGGTA 480
Db      515 GCGCAACCTATTCCCAAGAGCGCGCAACCGAGGGCAGTCTGGGCGCAACCGCGGTA 574
QY      481 CCCCTGCGCTCTATGTGTAACGAGGGGTGCGGGTGGGCAAGTGGCTCTGTCCCTCG 540
Db      575 CCCCTGCGCTCTATGTGTAACGAGGGGTGCGGGTGGGCAAGTGGCTCTGTCCCTCG 634
QY      541 CCGGCTCCCGCTAGTGGGGTCCCTACTGACCCCGGCGTGGTCAACGCAATTTGGGTA 600
Db      635 CCGGCTCCCGCTAGTGGGGTCCCGACGAGCCCGGCTGAGTGGCTAATTTGGGTA 694
QY      601 GGTATGATGATACCTCAAGTGTGTTGTCGCGCACTCAAGGGGTACATACCG 652
Db      695 GGTATGATGATACCTCAAGTGTGTTGTCGCGCACTCAAGGGGTACATACCG 746

RESULT 12
US-08-474-700B-45
; Sequence 45, Application US/08474700B
; Patent No. 6001990
; GENERAL INFORMATION:
; APPLICANT: Mandis, Jack
; APPLICANT: Wakita, Takaji
; APPLICANT: Moradpour, Darius
; TITLE OF INVENTION: ANTISENSE INHIBITION OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,700B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:

```

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; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-474-700B-45

Query Match      88.4%; Score 576.4; DB 3; Length 780;
Best Local Similarity 92.6%; Pred. No. 1,4e-152;
Matches 604; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY      1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGTGGAAACCGGTGAG 60
Db      104 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCATAGTGTCTGTGGAAACCGGTGAG 163
QY      61 TACACCGGAATTGCGAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATCCTGGA 120
Db      164 TACACCGGAATTGCGAGAGACGCGGCTCTTTCTTGGATCAACCCGCTCAATCCTGGA 223
QY      121 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTTGGGTGCGAAAGGCTTGG 180
Db      224 GATTGGGCGTCCCGGCAAGACTGCTAGCCGAGTATGTTGGGTGCGAAAGGCTTGG 283
QY      181 TGTACTGCTGATAGGAGTGTGTGGAGTGTGCGGAGGCTCTGTAGACCGTGACCAT 240
Db      284 TGTACTGCTGATAGGAGTGTGTGGAGTGTGCGGAGGCTCTGTAGACCGTGACCAT 343
QY      241 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAAAGAAACCAACCGCGCCGACAGGA 300
Db      344 GAGCAGCAATCTTAAACCTCAAGAAAAACCAAAAGTAACCAACCGCGCCGACAGGA 403
QY      301 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGGAATCTACGTGCTACCGCGCAGGGG 360
Db      404 CGTCAAGTCCCGGCGGTGCGCAGATGTTGTGGAATCTACGTGCTACCGCGCAGGGG 463
QY      361 CCCTAGATTGGGTGTGCGGAGCGCGAGAGCTTCGAGCGGTGCAACCTCGTGGAG 420
Db      464 CCCTAGATTGGGTGTGCGGAGCGCGAGAGCTTCGAGCGGTGCAACCTCGTGGAG 523
QY      421 GCGCAACCTATTCCCAAGAGCGCGCAACCGAGGGTCTGGGCGCAACCGCGGTA 480
Db      524 GCGCAACCTATTCCCAAGAGCGCGCAACCGAGGGTCTGGGCGCAACCGCGGTA 583
QY      481 CCCCTGCGCTCTATGTGTAACGAGGGGTGCGGGTGGGCAAGTGGCTCTGTCCCTCG 540
Db      584 CCCCTGCGCTCTATGTGTAACGAGGGGTGCGGGTGGGCAAGTGGCTCTGTCCCTCG 643
QY      541 CCGTCCCGCTCTATGTGGAAGCTCTACTGACCCCGCGTGGTCAAGCAATTTGGGTA 600
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QY      601 GGTATGATGATACCTCAAGTGTGTTGTCGCGCACTCAAGGGGTACATACCG 652
Db      704 GGTATGATGATACCTCAAGTGTGTTGTCGCGCACTCAAGGGGTACATACCG 755

RESULT 13
US-08-444-818-176
; Sequence 176, Application US/08444818
; Patent No. 615087
; GENERAL INFORMATION:
; APPLICANT: Chien, David Y.

```

APPLICANT: Ruter, William J.
 TITLE OF INVENTION: NANV Diagnostics and Vaccines
 NUMBER OF SEQUENCES: 777
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: CA
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,818
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/403,590
 FILING DATE: 14-MAR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Hardin, Aisa A.
 REGISTRATION NUMBER: 33,895
 REFERENCE/DOCKET NUMBER: 0110.002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508)359-3876
 TELEFAX: (508)359-3885
 INFORMATION FOR SEQ ID NO: 176:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9379 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 345
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or G"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 351
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or C"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 846
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is T or C"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1319
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or G"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 2126
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or C"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 3659
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is C or T"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 3669
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is G or C"
 FEATURE:
 NAME/KEY: misc_feature

LOCATION: 4146
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is C or T"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 4680
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is G or A"
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 9080
 OTHER INFORMATION: /note= "A heterogeneity may exist
 OTHER INFORMATION: at this position which is A or G"
 US-08-444-818-176
 Query Match 88.3%; Score 575.6; DB 3; Length 9379;
 Best Local Similarity 92.3%; Pred. No. 5.6e-152;
 Matches 602; Conservative 2; Mismatches 48; Indels 0; Gaps 0;
 1 CGTACAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTCGGAACCGGTGAG 60
 82 CTGCGAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTCTCGGAACCGGTGAG 141
 61 TACACCGAAATGCGAGAGACCGGCTCTTTCTTGATCAACCGCTCAATGCTTGA 120
 142 TACACCGAAATGCGAGAGACCGGCTCTTTCTTGATCAACCGCTCAATGCTTGA 201
 121 GATTGGGCGTCCCGGCAAGACTGTACCCAGTGTGTGGTGTGCGAAAGCCTTG 180
 202 GATTGGGCGTCCCGGCAAGACTGTACCCAGTGTGTGGTGTGCGAAAGCCTTG 261
 181 TGGTACTGCTGATAGAGGTGCTTCCGAGTCCCGGAGGTCTGTAGACCGTGCACAT 240
 262 TGGTACTGCTGATAGAGGTGCTTCCGAGTCCCGGAGGTCTGTAGACCGTGCACAT 321
 241 GAGCAGCAATCTAAACCTCAAGAAACCAAAAGAACCAACCAACCGCGCCACAGA 300
 322 GAGCAGCAATCTAAACCTCAAGAAACCAAAAGAACCAACCAACCGCGCCACAGA 381
 301 GGTCAAGTCCCGGCGGTGCGGAGATCTTGTGTGAGTCTACGTCTACCGCGCAGGG 360
 382 GGTCAAGTCCCGGCGGTGCGGAGATCTTGTGTGAGTCTACGTCTACCGCGCAGGG 441
 361 CCTAGATTGGGTGTGCGGCGGAGAGACTTGTGAGCGGTGCAACTCGTGGAG 420
 442 CCTAGATTGGGTGTGCGGCGGAGAGACTTGTGAGCGGTGCAACTCGTGGAG 501
 421 GCGCAACCTATTCCCAAGAGCGCGACCGGAGGCTCTGGGCGAGCCGGGTA 480
 502 ACGTCACTATCCCAAGGCTGTGGCCCGAGGCGAGGACCTGGGCTCAGCCGGGTA 561
 481 CCCCTGGCCCTTATATGTAACGAGGCTGTGGGCGAGTGTGCTCTGCTCCCTCG 540
 562 CCCCTGGCCCTTATATGTAACGAGGCTGTGGGCGAGTGTGCTCTGCTCCCTCG 621
 541 CGGCTCCGCTCAGTGTGGGCTCTACTGACCCCGGCGTATGAGTCAAGCAATTTGGTAA 600
 622 TGGCTTCGGCTTACTGAGGCGCCCAAGACCCCGGCGTATGAGTCAAGCAATTTGGTAA 681
 601 GGTTCATGATACCTCACTGTTGTTTCCCGGACCTTCATGAGGATACATACCG 652
 682 GGTTCATGATACCTCACTGTTGTTTCCCGGACCTTCATGAGGATACATACCG 733
 RESULT 14
 PCT-US91-02225-9
 Sequence 9, Application PC/TUS9102225
 GENERAL INFORMATION:
 APPLICANT: HOUGHTON, MICHAEL
 APPLICANT: CHOO, OUI-LIM
 APPLICANT: KOO, GEORGE
 TITLE OF INVENTION: COMBINATIONS OF HEPATITIS C VIRUS

TITLE OF INVENTION: ANTIBODIES
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Morrison & Foerster
STREET: 545 Middlefield Road, Suite 200
CITY: Menlo Park
STATE: CA
COUNTRY: USA
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/02225
FILING DATE: 19910329
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CIORTTI, THOMAS E.
REGISTRATION NUMBER: 21,013
REFERENCE/DOCKET NUMBER: 2300-0101.44
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 327-7250
TELEFAX: (415) 327-2951
TELEX: 706141
INFORMATION FOR SEQ. ID NO.: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 9401 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
PCT-US91-02225-9

Query Match 88.3%; Score 575.6; DB 6; Length 9401;
Best Local Similarity 92.3%; Pred. No. 5.6e-152;
Matches 602; Conservative 2; Mismatches 48; Indels 0; Gaps 0;
QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 60
DB 104 CGTCAGGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 163
QY 61 TACACCGGAATTCAGAGACCGGATCTTTCTTGGATCAACCCGCTCAATGCTTGA 120
DB 164 TACACCGGAATTCAGAGACCGGATCTTTCTTGGATCAACCCGCTCAATGCTTGA 223
QY 121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCTTG 180
DB 224 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCTTG 283
QY 181 TGTACTGCTGATAGGTGTCTTGGAGTGCCTCCGAGAGTCTCGTAACCGTGCACCA 240
DB 284 TGTACTGCTGATAGGTGTCTTGGAGTGCCTCCGAGAGTCTCGTAACCGTGCACCA 343
QY 241 GAGCAGAACTCTTAACCTCAAGAAACCAAAAGAAACCAACCCGCCGCCACAGGA 300
DB 344 GAGCAGAACTCTTAACCTCAAGAAACCAAAAGAAACCAACCGTCCGCCACAGGA 403
QY 301 CGTCAAGTTCCTCCGAGCGGTGGCCAGATCTTGGTGAAGTCTTACGTTCAACCGCGAGGG 360
DB 404 CGTCAAGTTCCTCCGAGCGGTGGCCAGATCTTGGTGAAGTCTTACGTTCAACCGCGAGGG 463
QY 361 CCCTGATTTGGGTGTGCGCGCAGCGCGGAGACTTCGAGCGGTGCAACTCTGTTGGAG 420
DB 464 CCCTGATTTGGGTGTGCGCGCAGCGCGGAGACTTCGAGCGGTGCAACTCTGTTGGAG 523
QY 421 GCGCAACCTTATTCAGAGAGCGCGACCCGAGGGCAGGTCTGTGGCGCAGCCGGGTA 480
DB 524 AGCTAGGCTTATCCCAAGGCTGTGCGCGCGAGGGCAGGACTTGGGCTCAGCCCGGGTA 583
QY 481 CCCTGAGCCCTCTTATGTTAAAGAGGGCTGCGGGTGGGCAAGGTGAGCTTGTCCCTCG 540

DB 584 CCCTGGCCCCCTATAGCAATGAGGGCTGCGGGTGGCGGATGCTCTCTCCCC 643
QY 541 CGGCTCCCTCTAGTGGGTCTCTAGACCCCGCGGATGCAAGCAATTTGGGTA 600
DB 644 TGGCTTCGGCTTACGCTGGGGCCCAAGACCCCGCGGATGCTCGGCAATTTGGGTA 703
QY 601 GGTATGATATCCCTCAAGTGTGTTTCCGCGAAGCTTCAATGGGATACCG 652
DB 704 GTTCATGATACCTTACGTCGCGCTTCGCGACCTCATGAGGTATACCG 755
RESULT 15
US-08-470-426B-13
Sequence 13, Application US/08470426B
Patent No. 5856458
GENERAL INFORMATION:
APPLICANT: Okamoto, Hiroaki
APPLICANT: Nakamura, Tetsuo
TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young,
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,426B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-153402
FILING DATE: 12-JUN-1990
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/59-47083.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 1863 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-470-426B-13
Query Match 88.3%; Score 575.4; DB 2; Length 1863;
Best Local Similarity 92.6%; Pred. No. 3.6e-152;
Matches 603; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTAG 60
DB 87 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGCGAAACCGGTAG 146
QY 61 TACACCGGAATTCAGAGACCGGATCTTTCTTGGATCAACCCGCTCAATGCTTGA 120
DB 147 TACACCGGAATTCAGAGACCGGATCTTTCTTGGATCAACCCGCTCAATGCTTGA 206
QY 121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCTTG 180
DB 207 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGAGTACTGTTGGGTCCGAAAGCCTTG 266

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QY 181 TGGTACTGCGCTGATAGGGTGTCTTGCAGTGCCTCCGGAGGTCTGTAGACCGTGACCAT 240
Db 267 TGGTACTGCGCTGATAGGGTGTCTTGCAGTGCCTCCGGAGGTCTGTAGACCGTGACCAT 326
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Db 327 GAGCAGCATCTTCCAAACCTCAAGAAAAACCAAAAGAAACCAACCGCTGCCCAAGGA 386
QY 301 CGTCAAGTCCCGGGCGGTGCGCAGATGCTGTGTGAGTCTACGTCGCTACCGCGCAGGGG 360
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QY 361 CCTAGATTGGGTGTGCGCGCAGCGCGAAGACTTCCGAGCGGTGCAACCTCGTGGAG 420
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QY 481 CCCCTGGCCCCCTTATAGGTACGAGGCTGTGGGTGGGCAAGTNGGCTCTGTCCCTCG 540
Db 567 CCTTGGCCCCCTTATAGGCAATGAGGCTGTGGGTGGGCGGAGTGGCTCTGTCTCCCG 626
QY 541 CGGCTCCCGTCTAGTGTGGGTCTCTACTGACCCCCGGGCTAGGTCAAGCAATTGGGTAA 600
Db 627 TGGCTCTCGGCTTAGTGTGGGCCCCCAGGAGCCCCCGGCTAGTGTGCGCAATTGGGTAA 686
QY 601 GGTGATCGATACCTCTCAAGTGTGNTTGGCGGACCTCATGGGGTACATACC 651
Db 687 GGTGATCGATACCTCTCAAGTGTGNTTGGCGGACCTCATGGGGTACATACC 737
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Job time : 159.882 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-61
Perfect score: 340
Sequence: 1 ctaacagctacatgaagctg.....atgcgcgcagcctgcgagcc 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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|------------|-------|-------------|--------|-------------------|-------------------|
| 1 | 340 | 100.0 | 340 | US-08-836-075A-61 | Sequence 61, Appl |
| 2 | 245.6 | 72.2 | 340 | US-08-441-971-6 | Sequence 6, Appl |
| 3 | 245.6 | 72.2 | 340 | US-08-221-653-6 | Sequence 6, Appl |
| 4 | 245.6 | 72.2 | 340 | US-08-442-144A-6 | Sequence 6, Appl |
| 5 | 245.6 | 72.2 | 340 | US-08-441-970-6 | Sequence 6, Appl |
| 6 | 240.8 | 70.8 | 340 | US-08-441-971-2 | Sequence 2, Appl |
| 7 | 240.8 | 70.8 | 340 | US-08-441-971-3 | Sequence 3, Appl |
| 8 | 240.8 | 70.8 | 340 | US-08-221-653-2 | Sequence 2, Appl |
| 9 | 240.8 | 70.8 | 340 | US-08-221-653-3 | Sequence 3, Appl |
| 10 | 240.8 | 70.8 | 340 | US-08-442-144A-2 | Sequence 2, Appl |
| 11 | 240.8 | 70.8 | 340 | US-08-442-144A-3 | Sequence 3, Appl |
| 12 | 240.8 | 70.8 | 340 | US-08-441-970-2 | Sequence 2, Appl |
| 13 | 240.8 | 70.8 | 340 | US-08-441-970-3 | Sequence 3, Appl |
| 14 | 240.8 | 70.8 | 1710 | US-09-208-140-1 | Sequence 1, Appl |
| 15 | 240.8 | 70.8 | 1710 | US-09-208-140-3 | Sequence 1, Appl |
| 16 | 240.8 | 70.8 | 1788 | US-08-722-806A-1 | Sequence 1, Appl |
| 17 | 240.8 | 70.8 | 1788 | US-09-337-028-1 | Sequence 1, Appl |
| 18 | 240.8 | 70.8 | 1788 | US-09-597-877-1 | Sequence 1, Appl |
| 19 | 240.8 | 70.8 | 9401 | US-08-432-693-1 | Sequence 1, Appl |
| 20 | 240.8 | 70.8 | 9416 | US-08-811-566-19 | Sequence 19, Appl |
| 21 | 240.8 | 70.8 | 9416 | US-09-034-756-19 | Sequence 19, Appl |
| 22 | 240.8 | 70.8 | 9599 | US-09-014-416-2 | Sequence 2, Appl |
| 23 | 240.8 | 70.8 | 9599 | US-09-014-416-6 | Sequence 6, Appl |
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| 25 | 240.8 | 70.8 | 9646 | 3 | US-09-034-756-1 | Sequence 1, Appl |
| 26 | 240.8 | 70.8 | 10803 | 3 | US-10-259-275-17 | Sequence 17, Appl |
| 27 | 240.8 | 70.8 | 12980 | 3 | US-08-811-566-5 | Sequence 5, Appl |
| 28 | 240.8 | 70.8 | 12980 | 3 | US-09-034-756-5 | Sequence 5, Appl |
| 29 | 239.2 | 70.4 | 340 | 3 | US-08-441-971-1 | Sequence 1, Appl |
| 30 | 239.2 | 70.4 | 340 | 3 | US-08-441-971-4 | Sequence 4, Appl |
| 31 | 239.2 | 70.4 | 340 | 3 | US-08-221-653-1 | Sequence 1, Appl |
| 32 | 239.2 | 70.4 | 340 | 3 | US-08-221-653-4 | Sequence 4, Appl |
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| 34 | 239.2 | 70.4 | 340 | 3 | US-08-442-144A-4 | Sequence 4, Appl |
| 35 | 239.2 | 70.4 | 340 | 3 | US-08-441-970-1 | Sequence 1, Appl |
| 36 | 239.2 | 70.4 | 340 | 3 | US-08-441-970-4 | Sequence 4, Appl |
| 37 | 239.2 | 70.4 | 561 | 2 | US-07-853-985A-1 | Sequence 1, Appl |
| 38 | 239.2 | 70.4 | 561 | 2 | US-07-681-703B-1 | Sequence 1, Appl |
| 39 | 239.2 | 70.4 | 561 | 2 | US-08-184-236-1 | Sequence 1, Appl |
| 40 | 239.2 | 70.4 | 561 | 2 | US-08-407-410B-1 | Sequence 1, Appl |
| 41 | 239.2 | 70.4 | 561 | 2 | US-08-485-500-1 | Sequence 1, Appl |
| 42 | 239.2 | 70.4 | 561 | 6 | PCT-US91-02370-1 | Sequence 1, Appl |
| 43 | 239.2 | 70.4 | 561 | 6 | PCT-US94-04174-1 | Sequence 1, Appl |
| 44 | 239.2 | 70.4 | 6785 | 3 | US-08-444-818-65 | Sequence 65, Appl |
| 45 | 239.2 | 70.4 | 7310 | 3 | US-08-444-818-74 | Sequence 74, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-61
Sequence 61, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKER
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-61

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 8,4e-90;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CTCAACGGTCACTGATGATATCCGAAAGAGAGTCCATATATCAATGCTGTGACT 60
OY 61 GCACCCCGAAGCAGCTGTAGCCATCATCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCATCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
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DB 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGCGAGATGCGGTGCGACGGGCTTT 180
OY 181 GACAACGAGCTGGGCGCAACACCTCAGCTGATATATCAAGGCGCTAGAGGCTGTAGAGC 240
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OY 301 GAGTGTAGGAGACCCGAGAGATGCGGCGAGGCTGTGAGGCC 340
DB 301 GAGTGTAGGAGACCCGAGAGATGCGGCGAGGCTGTGAGGCC 340
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RESULT 2

US-08-441-971-6

Sequence 6, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE: US/07/881.528
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp2
US-08-441-971-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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DB 1 CTCAACGGTCACTGATGATATCCGAAAGAGAGTCCATATATCAATGCTGTGACT 60
OY 61 GCACCCCGAAGCAGCTGTAGCCATCATCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCATCTTTGACTGAAAGGCTGTACGTGCGGGGCC 120
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DB 121 CTGACCAATTCAAAAGGGGAGAACTGGGGCTATGCGAGATGCGGTGCGACGGGCTTT 180
OY 181 GACAACGAGCTGGGCGCAACACCTCAGCTGATATATCAAGGCGCTAGAGGCTGTAGAGC 240
DB 181 GACAACGAGCTGGGCGCAACACCTCAGCTGATATATCAAGGCGCTAGAGGCTGTAGAGC 240
OY 241 TGCCAGCTCCAGAGACTGCAACCATCTGCTGTGGCGAGCACTGTGTGTATCTGCGA 300
DB 241 TGCCAGCTCCAGAGACTGCAACCATCTGCTGTGGCGAGCACTGTGTGTATCTGCGA 300
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DB 301 GAGTGTAGGAGACCCGAGAGATGCGGCGAGGCTGTGAGGCC 340
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RESULT 3

US-08-221-653-6

Sequence 6, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE: US/07/881.528
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5sp2
 US-08-221-653-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 3.3e-62;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAGCTGATATCCGAACAGAGGAGTCCATATACCAATGCTGACCT 60
 DB 1 CTTCACAGTCACTGAGCGCATATCCGACGAGAGGCAATCTACCAATGTTGTGACT 60
 QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTGCGGGGGCC 120
 DB 61 GCACCCCGAAGCAGCTGTGTGCGCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC 120
 QY 121 CTTCACCAATTCAAAAGGGAGAACTGCGGCTATTCGACGATCCGTCGACGGGCTTT 180
 DB 121 TCTTACCAATTCAAAAGGGAGAACTGCGGCTATTCGACGATCCGTCGACGGGCTTT 180
 QY 181 GACAACGAGCTGCGGCAACCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
 DB 181 GACGACTGAGCTGTGTATATACCTCACTTGTATCAAGGCCCGGGAGGCTGTGAGC 240
 QY 241 TGCCAAGCTCCAGGACTGCAACATGCTGCTGTGCGCAGCAGCTGTGCTGATCTGCGA 300
 DB 241 CGCAGGGCTCCAGGACTGCAACATGCTGCTGTGCGCAGCAGCTGTGCTGATCTGCGA 300
 QY 301 GAGTGTAGGAGACCCAGAGAGATGCGGCGAGCTTGCAGCC 340
 DB 301 AAGTGGGGGGTCCAGAGAGAGCGGGCGAGCTTGCAGCC 340

RESULT 4
 US-08-442-144A-6
 Sequence 6, Application US/08442144A
 Patent No. 6214583

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 APPLICANT: Eileen Beall
 APPLICANT: Bruce Irvine
 APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdea
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 148
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch
 OPERATING SYSTEM: Windows NT
 SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442.144A
 FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/221,653
 FILING DATE: APRIL 1, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Doreen Yacko Trujillo
 REGISTRATION NUMBER: 35,719
 REFERENCE/DOCKET NUMBER: CHIR-0121
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 TELEX:
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 Nucleotides
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5sp2
 US-08-442-144A-6

Query Match 72.2%; Score 245.6; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 3.3e-62;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAGCTGATATCCGAACAGAGGAGTCCATATACCAATGCTGACCT 60
 DB 1 CTTCACAGTCACTGAGCGCATATCCGACGAGAGGCAATCTACCAATGTTGTGACT 60
 QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAGGCTGTACGTGCGGGGGCC 120
 DB 61 GCACCCCGAAGCAGCTGTGTGCGCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCC 120
 QY 121 CTTCACCAATTCAAAAGGGAGAACTGCGGCTATTCGACGATCCGTCGACGGGCTTT 180
 DB 121 TCTTACCAATTCAAAAGGGAGAACTGCGGCTATTCGACGATCCGTCGACGGGCTTT 180
 QY 181 GACAACGAGCTGCGGCAACCTCACTGCTATATCAAGGCCCTAGAGAGCTGTAGAGC 240
 DB 181 GACGACTGAGCTGTGTATATACCTCACTTGTATCAAGGCCCGGGAGGCTGTGAGC 240
 QY 241 TGCCAAGCTCCAGGACTGCAACATGCTGCTGTGCGCAGCAGCTGTGCTGATCTGCGA 300
 DB 241 CGCAGGGCTCCAGGACTGCAACATGCTGCTGTGCGCAGCAGCTGTGCTGATCTGCGA 300
 QY 301 GAGTGTAGGAGACCCAGAGAGATGCGGCGAGCTTGCAGCC 340
 DB 301 AAGTGGGGGGTCCAGAGAGAGCGGGCGAGCTTGCAGCC 340

RESULT 5
 US-08-441-970-6
 Sequence 6, Application US/08441970
 Patent No. 6297370

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 OPERATING SYSTEM: IBM compatible
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:

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APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5ap2
US-08-441-970-6

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Query Match 72.2%; Score 245.6; DB 3; Length 340;
Best Local Similarity 82.6%; Pred. No. 3.3e-62;
Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGTCACTGAGTCAATCCGAAAGAGAGTCCATATACCAATGCTGAGCT 60
DB 1 CTCACAGTCACTGAGCGATATCCGTACGAGAGGCAATCTACCAATGTTGAGCT 60
QY 61 GCACCCCGAAGCAGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCC 120
QY 121 CTTCACCAATTCAGAAAGGGAGAACTGCGGCTATCGCAATGCCGTCCAGCGGCTTT 180
DB 121 CTTCACCAATTCAGAAAGGGAGAACTGCGGCTATCGCAATGCCGTCCAGCGGCTTT 180
QY 181 GACAAACAGCTGCGGCAACCCCTCACTGCTATATCAAGGCCCTTAGAGAGCTGTAGAGC 240
DB 181 GACAACTAGCTGTGTATATCCCTCACTGCTATATCAAGGCCCTTAGAGAGCTGTAGAGC 240
QY 241 TGCCAACTCCAGAGCTGCAACCATGCTGCTGTGCGAGACGACCTGTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGAGCTGCAACCATGCTGCTGTGCGAGACGACCTGTGATCTGCGA 300
QY 301 GAGTGTAGGAGCCAGAGAGATGCGGCGAGCCTGCGAGCC 340
DB 301 AAGTGGGGGTCCAGAGAGACGCGCGAGCCTGAGAGCC 340

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RESULT 6
US-08-441-971-2
; Sequence 2, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:

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MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-971-2

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Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 CTCACGGTCACTGAGTCAATCCGAAAGAGAGTCCATATACCAATGCTGAGCT 60
DB 1 CTCACAGTCACTGAGCGATATCCGTACGAGAGGCAATTTACCAATGTTGAGCT 60
QY 61 GCACCCCGAAGCAGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCC 120
DB 61 GCACCCCGAAGCAGTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGTCGGGGGCC 120
QY 121 CTTCACCAATTCAGAAAGGGAGAACTGCGGCTATCGCAATGCCGTCCAGCGGCTTT 180
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QY 241 TGCCAACTCCAGAGCTGCAACCATGCTGCTGTGCGAGACGACCTGTGATCTGCGA 300
DB 241 CGCAGGGCTCCAGAGCTGCAACCATGCTGCTGTGCGAGACGACCTGTGATCTGCGA 300
QY 301 GAGTGTAGGAGCCAGAGAGATGCGGCGAGCCTGCGAGCC 340
DB 301 AAGTGGGGGTCCAGAGAGACGCGCGAGCCTGAGAGCC 340

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```

RESULT 7
US-08-441-971-3
; Sequence 3, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:

```

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p11
US-08-441-971-3

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 1 CTCACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACT 60
DB 1 CTCACAGTCACTGAGACGACATCCGTACGAGAGGCAATCTACCAATGTTGTGACT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGCGGGGACC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGCGGGGACC 120
QY 121 CTTCACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
DB 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
QY 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
DB 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
QY 181 GACAACTGCTGCGGCAACACCTTCACCTGCTATATCAAGGCTTACGAGCCTGTAGAC 240
DB 181 GACAACTGCTGCTGTGTATATACCTTCATCTGCTACATCAAGGCGCGGAGCCTGTGAGC 240
QY 241 TGCCAACTCCAGAGCTGCAACATGCTGTGTGTGCGGAGAGCCTGTGTGATTTGAG 300
DB 241 TGCCAACTCCAGAGCTGCAACATGCTGTGTGTGCGGAGAGCCTGTGTGATTTGAG 300
QY 301 GAGTGTAGGAGCCCGAGAGATGCGGAGAGCCTGTGAGACC 340
DB 301 GAGTGTAGGAGCCCGAGAGATGCGGAGAGCCTGTGAGACC 340

RESULT 8
US-08-221-653-2
; Sequence 2, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5i21
US-08-221-653-2

Query Match 70.8%; Score 240.8; DB 3; Length 340;
Best Local Similarity 81.8%; Pred. No. 8.5e-61;
Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
QY 1 CTCACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACT 60
DB 1 CTCACAGTCACTGAGACGACATCCGTACGAGAGGCAATCTACCAATGTTGTGACT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGCGGGGACC 120
DB 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGGCTGTACGCGGGGACC 120
QY 121 CTTCACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
DB 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
QY 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
DB 121 TCTTACCAATTCAAAGGGGAGAACTGCGGCTATGCGAGATGCGTGCAGGGGCTT 180
QY 181 GACAACTGCTGCGGCAACACCTTCACCTGCTATATCAAGGCTTACGAGCCTGTAGAC 240
DB 181 GACAACTGCTGCTGTGTATATACCTTCATCTGCTACATCAAGGCGCGGAGCCTGTGAGC 240
QY 241 TGCCAACTCCAGAGCTGCAACATGCTGTGTGTGCGGAGAGCCTGTGTGATTTGAG 300
DB 241 TGCCAACTCCAGAGCTGCAACATGCTGTGTGTGCGGAGAGCCTGTGTGATTTGAG 300
QY 301 GAGTGTAGGAGCCCGAGAGATGCGGAGAGCCTGTGAGACC 340
DB 301 AAGTGTGGGGGTCCAGAGAGAGCGCGGAGAGCCTGTGAGACC 340

QY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACCT 60
Db 1 CTCACAGTCACTGAGAGCGACATCCGTACGAGAGGCAATTTACCAATGTTGTGACCT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTACGTGCGGGGCC 120
Db 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTATGTGCGGGGCC 120
QY 121 CTTCACCAATTCAAAAGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
Db 121 TCTTACCAATTCAAGGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTACT 180
QY 181 GACAACGAGCTGCGGCAACACCTCACTGTATATCAAGGCCCTAGCAGCCTGTAGAGC 240
Db 181 GACAACGAGCTGTGTATACACCTCTCACTGTATATCAAGGCCCTGCAGCCTGTGAGC 240
QY 241 TGCCAAGCTCCAGAGCTGCACCATGCTGCTGTGGCAGCACTGTGTGTATTCGGA 300
Db 241 CGCAGGGCTCCAGAGCTGCACCATGCTGTGTGTGGCAGCACTGTGTATCTGTGA 300
QY 301 GAGGTAGGGAGCCGAGAGGATGCGGCGAGCCTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGCGCGGAGCCTGAGAGCC 340

RESULT 13

US-08-441-970-3
Sequence 3, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5p1

US-08-441-970-3

Query Match 70.8%; Score 240.8; DB 3; Length 340;

Best Local Similarity 81.8%; Pred. No. 8.5e-61;

Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACCT 60
Db 1 CTCACAGTCACTGAGAGCGACATCCGTACGAGAGGCAATTTACCAATGTTGTGACCT 60
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTACGTGCGGGGCC 120
Db 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTATGTGCGGGGCC 120
QY 121 CTTCACCAATTCAAAAGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
Db 121 TCTTACCAATTCAAGGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTACT 180
QY 181 GACAACGAGCTGCGGCAACACCTCACTGTATATCAAGGCCCTTAGCAGCCTGTAGAGC 240
Db 181 GACAACGAGCTGTGTATACACCTCTCACTGTATATCAAGGCCCTGCAGCCTGTGAGC 240
QY 241 TGCCAAGCTCCAGAGCTGCACCATGCTGCTGTGGCAGCACTGTGTGTATTCGGA 300
Db 241 CGCAGGGCTCCAGAGCTGCACCATGCTGTGTGTGGCAGCACTGTGTATCTGTGA 300
QY 301 GAGGTAGGGAGCCGAGAGGATGCGGCGAGCCTGCGAGCC 340
Db 301 AAGTGGGGGTCCAGAGAGCGCGGAGCCTGAGAGCC 340

RESULT 14

US-09-208-140-1
Sequence 1, Application US/09208140
Patent No. 6228576

GENERAL INFORMATION:

APPLICANT: Del Vecchio, Alfred

TITLE OF INVENTION: HEPATITIS C VIRUS NS5B TRUNCATED PROTEIN

TITLE OF INVENTION: AND METHODS THEREOF TO IDENTIFY ANTIVIRAL COMPOUNDS

FILE REFERENCE: P50743

CURRENT APPLICATION NUMBER: US/09/208,140

CURRENT FILING DATE: 1998-12-09

NUMBER OF SEQ ID NOS: 34

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 1

LENGTH: 1710

TYPE: DNA

ORGANISM: Viral

Query Match 70.8%; Score 240.8; DB 3; Length 1710;

Best Local Similarity 81.8%; Pred. No. 1.5e-60;

Matches 278; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 CTCAACGGTCACTGAAGCTGATATCCGAACAGAGAGTCCATATACCAATGCTGTGACCT 60
Db 675 CTCACAGTCACTGAGAGCGACATCCGTACGAGAGGCAATTTACCAATGTTGTGACCT 734
QY 61 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTACGTGCGGGGCC 120
Db 735 GCACCCCGAAGCAGCTGTAGCCATCAAGTCTTTGACTGAAAGCTGTATGTGCGGGGCC 794
QY 121 CTTCACCAATTCAAAAGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTCTT 180
Db 795 TCTTACCAATTCAAGGGGGAGAACTGGGGCTATCGCAGATGCGCTGCAGCGGCTACT 854
QY 181 GACAACGAGCTGCGGCAACACCTCACTGTATATCAAGGCCCTTAGCAGCCTGTAGAGC 240
Db 855 GACAACGAGCTGTGTATACACCTCTCACTGTATATCAAGGCCCTGCAGCCTGTGAGC 914
QY 241 TGCCAAGCTCCAGAGCTGCACCATGCTGCTGTGGCAGCACTGTGTGTATTCGGA 300
Db 915 CGCAGGGCTCCAGAGCTGCACCATGCTGTGTGTGGCAGCACTGTGTATCTGTGA 974

QY 301 GAGTGTAGGGACCCAGGAGGATGCGGCCAGCCTGCCAGCC 340
 |||||
 Db 975 AAGTCGGGGGCTCCAGGAGGACGGCGAGCCTGAGAGCC 1014

RESULT 15

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US-09-208-140-3
: Sequence 3, Application US/09208140
: Patent No. 6228576
: GENERAL INFORMATION:
: APPLICANT: Del Vecchio, Alfred
: TITLE OF INVENTION: HEPATITIS C VIRUS NS5B TRUNCATED PROTEIN
: TITLE OF INVENTION: AND METHODS THEREOF TO IDENTIFY ANTIVIRAL COMPOUNDS
: FILE REFERENCE: P50743
: CURRENT APPLICATION NUMBER: US/09/208,140
: CURRENT FILING DATE: 1998-12-09
: NUMBER OF SEQ ID NOS: 34
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 3
: LENGTH: 1710
: TYPE: DNA
: ORGANISM: Viral
: US-09-208-140-3

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|-----------------------|--------------|--------------------|----------------|--------------|
| Query Match | 70.8%; | Score 240.8; | DB 3; | Length 1710; |
| Best Local Similarity | 81.8%; | Pred. No. 1.5e-60; | | |
| Matches 278; | Conservative | 0; | Mismatches 62; | Indels 0; |
| | | | | Gaps 0; |

| | | | | |
|----|-------------------------------|------------------------------------|--------------------------------|------|
| QY | CTCAAGCGTCACTGAAGCTGATATTCGAA | CAAGAGAGTCCATATACAAATGCTGTGACT | 60 | |
| Db | 675 | CTTCAACATCTACTGAGAGCGCATCCGTA | CGSAGSAGCAATTTACCAATTTGTGTGACT | 734 |
| QY | 61 | GCACCCCGAAGCAGTGTAGCCATCAAGCTTTTGA | CTAAGAGCGCTGTATCGTGGAGGCC | 120 |
| Db | 735 | GGACCCCCAAGCCCGGTGGCATCAAGTCCCTCA | CTGAGAGGCTTTATGTGTGGGGCCC | 794 |
| QY | 121 | CTTGACCAATTCAAAAGGGGAGAACTGCGGGTAT | CGAGATGCCGTGCACAGCGGCGTCTT | 180 |
| Db | 795 | TCTTACCAATTCAAGGGGGGAAAACTGGGGCTA | CCGAGGTGCCCGCGAGCGGCGTACT | 854 |
| QY | 181 | GACAAACAGTGTGGCGACACCTCTCACTGCTAT | TCAAGGCCCTTAGCAGCTGTAGAGC | 240 |
| Db | 855 | GACAACTAGTGTGGTATACCCCTCACTTGCTAC | TACAGGCCCGGCGAGGCTGTGAGC | 914 |
| QY | 241 | TGCGAAGCTCCAGSATTGCACATCTCTGTGTGG | CCAGACACTTGCTGTGATCTTGCGA | 300 |
| Db | 915 | CGAGAGGCTCCAGSACTGCACCATCTCTGTGTGG | CCAGACACTTGAAGTCTGTGATCTTGGA | 974 |
| QY | 301 | GAGTTTAGGGAGCCGAGSAGATGCGGCGAGCCT | GTGAGGCC | 340 |
| Db | 975 | AAGTGTGGGGGCTCCAGSAGACGCGCGAGCCT | TGAGAGCC | 1014 |

Search completed: January 11, 2006, 10:56:32
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-63

Query Match 95.9%; Score 326; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1,1e-93;
Matches 328; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 2 TCAACAGCTGAGAGTATATCCGTACAGAGAGTCACTCCATGCTGATCTA 61
   |||
Db 2 TCAACAGCTGAGAGTATATCCGTACAGAGAGTCACTCCATGCTGATCTA 61
QY 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGGTCC 121
   |||
Db 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGGTCC 121
QY 122 CTGCAAACTCAAAAAGGCGAAGCTGCGGCTACCGCCGATCCGTGCAAGGGGCTCTG 181
   |||
Db 122 CTGCAAACTCAAAAAGGCGAAGCTGCGGCTACCGCCGATCCGTGCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
   |||
Db 182 ACGACTAGCTGCGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATTGCTCATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
   |||
Db 242 GCGAAGCTCCAGATTGCTCATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
QY 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
   |||
Db 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
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RESULT 2

US-08-441-971-12
Sequence 12, Application US/08441971

Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-2441
TELEFAX: (617) 720-2441
INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55ep3

US-08-441-971-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 2 TCAACAGCTGAGAGTATATCCGTACAGAGAGTCACTCCATGCTGATCTA 61
   |||
Db 2 TCAACAGCTGAGAGTATATCCGTACAGAGAGTCACTCCATGCTGATCTA 61
QY 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGGTCC 121
   |||
Db 62 GACCCGAGGCTCGCAAGGCCATTAAGTCCCTCAAGAGAGCTTTATATGAGGGGTCC 121
QY 122 CTGCAAACTCAAAAAGGCGAAGCTGCGGCTACCGCCGATCCGTGCAAGGGGCTCTG 181
   |||
Db 122 CTGCAAACTCAAAAAGGCGAAGCTGCGGCTACCGCCGATCCGTGCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
   |||
Db 182 ACGACTAGCTGCGCAACACCTCACTGTTACATTAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATTGCTCATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
   |||
Db 242 GCGAAGCTCCAGATTGCTCATGCTGCTGTGCGACGACCTTGTCTATCTGCGAG 301
QY 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
   |||
Db 302 ATCGAGGGGANTCCANGAGATCCGTGCA 329
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RESULT 3

US-08-221-653-12
Sequence 12, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp3
US-08-221-653-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCACAGCTCACTGAGTGAATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCACAGCTCACTGAGTGAATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGCTTTATATCGGGGTCCC 121
DB 62 GACCCGAGGCGCATTAAGTCCCTCAAGAGAGCTTTATATCGGGGTCCC 121
QY 122 CTGCAAACTCAAAAGGCGCAAACTCGGCGTACCGCGGATGCCGTCAAGGCGGTCTG 181
DB 122 CTGCAAACTCAAAAGGCGCAAACTCGGCGTACCGCGGATGCCGTCAAGGCGGTCTG 181
QY 182 ACAGCTAGCTGCGGCAACCCCTCACCTGTTACATAAAGGCGAGGAGCGCTGTGAGCT 241
DB 182 ACAGCTAGCTGCGGTAATACCTTCAATGTTACTGAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTGCTCAATGCTGCTGTGCGGCGACGACCTTGTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGTTGCTCAATGCTGCTGTGCGGCGACGACCTTGTATCTGCGAG 301
QY 302 ATCGAGGAGTCCANAGAGATCGTCGA 329
DB 302 AGCGCGGGAGCCCAAGAGGAGCGCGCGA 329

RESULT 4
US-08-442-144A-12
Sequence 12, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp3
US-08-442-144A-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;
Best Local Similarity 86.0%; Pred. No. 2.5e-71;
Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCACAGCTCACTGAGTGAATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCACAGCTCACTGAGTGAATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGCTTTATATCGGGGTCCC 121
DB 62 GACCCGAGGCGCATTAAGTCCCTCAAGAGAGCTTTATATCGGGGTCCC 121
QY 122 CTGCAAACTCAAAAGGCGCAAACTCGGCGTACCGCGGATGCCGTCAAGGCGGTCTG 181
DB 122 CTGCAAACTCAAAAGGCGCAAACTCGGCGTACCGCGGATGCCGTCAAGGCGGTCTG 181
QY 182 ACAGCTAGCTGCGGCAACCCCTCACCTGTTACATAAAGGCGAGGAGCGCTGTGAGCT 241
DB 182 ACAGCTAGCTGCGGTAATACCTTCAATGTTACTGAAGGCGAGGCGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGAGTTGCTCAATGCTGCTGTGCGGCGACGACCTTGTATCTGCGAG 301
DB 242 GCGAAGCTCCAGAGTTGCTCAATGCTGCTGTGCGGCGACGACCTTGTATCTGCGAG 301
QY 302 ATCGAGGAGTCCANAGAGATCGTCGA 329
DB 302 AGCGCGGGAGCCCAAGAGGAGCGCGCGA 329

RESULT 5
US-08-441-970-12
Sequence 12, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp3
US-08-441-970-12

Query Match 75.2%; Score 255.6; DB 3; Length 340;

Best Local Similarity 86.0%; Pred. No. 2.5e-71; Matches 282; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCAATCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTGAGAGTCAATCAATGCTGTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGCCATAAGTCCCTCACAGAGAGGCTTTATATCGGGGCTCC 121
DB 62 GACCCGAGGCTCGCAAGCCATAAGTCCCTCACAGAGAGGCTTTATATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGGCAGAACTGCGGCTATACCGCGCATGCCGCGCAAGGGGCTCTG 181
DB 122 CTGACAACTCAAAAGGGCAGAACTGCGGCTATACCGCGCATGCCGCGCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGGCAGCCTGTGAGCT 241
DB 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGGCAGCCTGTGAGCT 241
QY 242 GCGAAGCTCCAGGACTGCAATGCTGTGTGCGACGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGGACTGCAATGCTGTGTGCGAGCAGACCTTGTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGTCGA 329
DB 302 AGCGGGGAGCCCAAGAGAGCGGGCGA 329

RESULT 6
US-08-441-971-11

; Sequence 11, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESS: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE: US/07/881,528
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-971-11

Query Match 72.4%; Score 246; DB 3; Length 340;

Best Local Similarity 84.1%; Pred. No. 2.8e-68; Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTGTGAGAGTCAATCAATGCTGTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGCCATAAGTCCCTCACAGAGAGGCTTTATATCGGGGCTCC 121
DB 62 GACCCGAGGCTCGCAAGCCATAAGTCCCTCACAGAGAGGCTTTATATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGGCAGAACTGCGGCTATACCGCGCATGCCGCGCAAGGGGCTCTG 181
DB 122 CTGACAACTCAAAAGGGCAGAACTGCGGCTATACCGCGCATGCCGCGCAAGGGGCTCTG 181
QY 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGGCAGCCTGTGAGCT 241
DB 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATAAAGCCAGGGCAGCCTGTGAGCT 241
QY 242 GCGAAGCTCCAGGACTGCAATGCTGTGTGCGACGACCTTGTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGGACTGCAATGCTGTGTGCGAGCAGACCTTGTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGTCGA 329
DB 302 AGCGGGGAGCCCAAGAGAGCGGGCGA 329

RESULT 7
US-08-221-653-11

; Sequence 11, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp1
US-08-221-653-11

Query Match 72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTA 61
DB 2 TCACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCTTTATATCGGGGCTCC 121
DB 62 GACCCGAGGCGCATTAAGTCCCTCAAGAGAGGCGCTGTACATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGCAAGCTGCGGCTACCGCGCATGCGTCAAGCGGCTG 181
DB 122 CTGACAACTCAAAAGGCGCAAGCTGCGGCTACCGCGCATGCGTCAAGCGGCTG 181
QY 182 AGCACTAGCTGCGGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGCTTATCGAGCT 241
DB 182 AGCACTAGCTGCGGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGCTTATCGAGCT 241
QY 242 GCGAAGCTCAGAGTTCATGCTCTGTCGCGAGAGAGCTTTGCTTATCTGCGAG 301
DB 242 GCGAAGCTCAGAGTTCATGCTCTGTCGCGAGAGAGCTTTGCTTATCTGCGAG 301
QY 302 ATCGAGGAGGNTCCANAGAGATCCGTGA 329
DB 302 AGCGCGGAACCCAAAGAGAGCGCGCGA 329

RESULT 8
US-08-442-144A-11
Sequence 11, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: n55sp1
US-08-442-144A-11

Query Match 72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTA 61
DB 2 TCACAGTCACTGAGAGTATCCGTACAGAGAGTCCATCTCAATGCTGATCTG 61
QY 62 GACCCGAGGCTCGCAAGGCGCATTAAGTCCCTCAAGAGAGGCTTTATATCGGGGCTCC 121
DB 62 GACCCGAGGCGCATTAAGTCCCTCAAGAGAGGCGCTGTACATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGCAAGCTGCGGCTACCGCGCATGCGTCAAGCGGCTG 181
DB 122 CTGACAACTCAAAAGGCGCAAGCTGCGGCTACCGCGCATGCGTCAAGCGGCTG 181
QY 182 AGCACTAGCTGCGGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGCTTATCGAGCT 241
DB 182 AGCACTAGCTGCGGCAAGGCGCATTAAGTCCCTCAAGAGAGGCGCTTATCGAGCT 241
QY 242 GCGAAGCTCAGAGTTCATGCTCTGTCGCGAGAGAGCTTTGCTTATCTGCGAG 301
DB 242 GCGAAGCTCAGAGTTCATGCTCTGTCGCGAGAGAGCTTTGCTTATCTGCGAG 301
QY 302 ATCGAGGAGGNTCCANAGAGATCCGTGA 329
DB 302 AGCGCGGAACCCAAAGAGAGCGCGCGA 329

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RESULT 9
US-08-441-970-11
; Sequence 11, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/597,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nesep1
US-08-441-970-11

Query Match      72.4%; Score 246; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 2.8e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

QY      2 TCAACAGTCACGAGAGTATCCGTACAGAGAGTCCATCTACCAATGCTGATCTA 61
      |||
DB      2 TCCACAGTCACGAGAGTATCCGTGAGAGTCAATTTACCAATGTTGTACTTG 61
      |||
QY      62 GACCCGGAAGCTCGAAGGCCATAAGGTCCCTGACAGAGAGGCTTTATATCGGGGCTCC 121
      |||
DB      62 GCCCCGGAAGCCAGACAGGCTATAAGTGTCTGACAGAGCGGCTGTACATCGGGGCTCCC 121
      |||
QY      122 CTGACAACTCAAAAGGCGAAGACTGCGGCTACCGCCGATGCGCGTGAAGGCGCTCTG 181
      |||
DB      122 CTGACTAATTTAAAAGGCGAAGACTGCGGCTATCGCCGCTGCGGCAAGCGGCTGCTG 181
      |||
QY      182 ACGACTAGTGGGGAACACCTCTACCTGTATCAATAAAGGCGGAGAGCTGTGAGACT 241
      |||
DB      182 ACGACTAGTGGGGAACACCTCTCAATGTTACTTGAAAGGCGCTGCGGCTGTGAGACT 241
      |||
QY      242 GCGAAGCTCCAGATTTGCTCAATGCTGCTGTGCGAAGACCTTGTGTTATCTGCGAG 301
      |||
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DB      242 GCGAAGCTCCAGACTGACAGATCTGTGTGCGGTGACGACCTGTATCTGTGAG 301
QY      302 ATCGAGGGGANTCCANGAGATCCGTGA 329
      |||
DB      302 AGCGGGGAACCAAGGAGCGGCGCA 329
      |||

RESULT 10
US-08-191-160-3
; Sequence 3, Application US/08191160
; Patent No. 6210675
; GENERAL INFORMATION:
; APPLICANT: Highfield, Peter Edmund
; APPLICANT: Rodgers, Brian Colin
; APPLICANT: Tedder, Richard Seton
; APPLICANT: Barbara, John Anthony James
; TITLE OF INVENTION: Viral Agent
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz
; STREET: 1700 K Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
; COMPUTER: IBM AT compatible
; OPERATING SYSTEM: MS-DOS V3.2
; SOFTWARE: Wordperfect 5.0 (DOS text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/191,160
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/628,516
; FILING DATE: 17 DEC 1990
; APPLICATION NUMBER: UK 89 28 562.1
; FILING DATE: 18 DEC 1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 414.0
; FILING DATE: 27 FEB 1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: UK 90 04 814.1
; FILING DATE: 03 MAR 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: E. Anthony Figg
; REGISTRATION NUMBER: 27,195
; REFERENCE/DOCKET NUMBER: 1645-103A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 833-5740
; TELEFAX: (202) 833-5744
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1770 base pairs
; TYPE: nucleotide with corresponding protein
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH
; IMMEDIATE SOURCE:
; LIBRARY: clone JG2 from cDNA library in lambda gtl1
; FEATURE:
; LOCATION: from 1 to 1770 bp portion of the PT-NANBH
; OTHER INFORMATION: probably encodes viral non-structural
; OTHER INFORMATION: proteins
US-08-191-160-3

Query Match      72.4%; Score 246; DB 3; Length 1770;
Best Local Similarity 84.1%; Pred. No. 5.3e-68;
Matches 276; Conservative 0; Mismatches 52; Indels 0; Gaps 0;
```

| | | | |
|----|------|---|------|
| QY | 2 | CCAAAGCATCTGAGAGTGATATCCGTACAGAGGAGTCCATCTACCAATGCTGGATCTCA | 61 |
| Db | 1282 | TCMAAGTCATCTGAGATATGATCATCCGTGTAGAGATCAATTTATCAATGTTTGACTTG | 1341 |
| QY | 62 | GACCCCGAGGCTCGCAAGGCCATTAAGTCCCTCACAGAGAGCTTTATATCGGAGGCTCC | 121 |
| Db | 1342 | GCCCCGAGGCGCAGACAGGCCATTAAGTCCCTCACAGAGCGGCTTTATATCGGAGGCTCC | 1401 |
| QY | 122 | CTGACAAACTGAAAAGGCGAGAACTGCGGCTTACCGCGATGCCGTGCAAGCGGCGTCTG | 181 |
| Db | 1402 | CTGACTAATTCAAAAGGCGCAGAACTGCGGCTATCGCCGGTGGCGCGCAGCGCGTGTCTG | 1461 |
| QY | 182 | ACGACTAGCTGCGGCGAACACCTCTCACTGTTACATTAAGGCGCAGGCGACGCTGTGAGCT | 241 |
| Db | 1462 | ACGACTAGCTGCGGTAATATACCTCCACATGTTACTTTGAAGGCGCTCTGCACGCTGTGAGCT | 1521 |
| QY | 242 | GCGAAGCTCCAGAGATTGCTCAATGCTGCTCTGTGGCGACGACCTTGTGCTATCTGGCAG | 301 |
| Db | 1522 | GCAAAAGCTCCAGAGATGACATGCTGCTGTGGCGAGCGGCTTGTGCTATCTGTGAG | 1581 |
| QY | 302 | ATCGAGGGGAGTCCANAGAGATCCGTGCA | 329 |
| Db | 1582 | AGCGGCGAACCACAGAGAGACCGGCGCA | 1609 |

RESULT 11

US-08-191-160-22
Sequence 22, Application US/08191160
Patent No. 6210675
GENERAL INFORMATION:
APPLICANT: Highfield, Peter Edmund
APPLICANT: Rodgers, Brian Colin
APPLICANT: Tedder, Richard Seton
APPLICANT: Barbara, John Anthony James
TITLE OF INVENTION: Viral Agent
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Figg, Ernst & Kuiz
STREET: 1700 K Street
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 KB storage
COMPUTER: IBM AT compatible
OPERATING SYSTEM: MS-DOS V3.2
SOFTWARE: Wordperfect 5.0 (DOS text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/191,160
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/628,516
FILING DATE: 17 DEC 1990
APPLICATION NUMBER: UK 89 28 562.1
FILING DATE: 18 DEC 1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 414.0
FILING DATE: 27 FEB 1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: UK 90 04 814.1
FILING DATE: 03 MAR 1990
ATTORNEY/AGENT INFORMATION:
NAME: E. Anthony Figg
REGISTRATION NUMBER: 27,195
REFERENCE/DOCKET NUMBER: 1645-103A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 833-5740
TELEFAX: (202) 833-5744
INFORMATION FOR SEQ. ID NO.: 22:
SEQUENCE CHARACTERISTICS:

```

? LENGTH: 3750 base pairs
? TYPE: nucleotide with corresponding protein
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA to genomic RNA
? ORIGINAL SOURCE:
? ORGANISM: human; serum infectious for PT-NANBH
? IMMEDIATE SOURCE:
? LIBRARY: cDNA clones from 3' end of the genome
? FEATURE:
? LOCATION: from 1 to 3750 bp portion of the PT-NANBH
? OTHER INFORMATION: polyprotein
? OTHER INFORMATION: viral non-structural proteins
US-08-191-160-22

```

Query Match

| | | | | |
|---------------------------|--------|--------------------|-----------|--------------|
| Query Match | 72.4%; | Score 246; | DB 3; | length 3750; |
| Best Local Similarity | 84.1%; | Pred. No. 7.1e-68; | | |
| Matches 276; Conservative | 0; | Mismatches 52; | Indels 0; | Gaps 0; |

2 TCAACAGTCACTGAGAGTGATATCCGTACAGAGGAGTCCATCTACCAATGCTGTGATCTA 61

Db 3262 TCACACAGTCACCTGAGATGACATCCGCTGTAGAGGAGTCAATTATCAATGTTGTGACTTG 3321

62 GACCCGAGGCTCGCAAGCCATAAGTCCCTCACAGAGAGGCTTATATCGGGTCCC 121

Db 3322 GCCCCGAGCCAGACAGGCCATAAGCTCGCTCACACAGCGGCTTATAATCGGGGTCCC 3381

12Z CIGACAPACI CMAAAGGCGAGAACIGCGGCIAC GGLCGAIGCCGIGCMAAGCGGICIG 181

DD 3302 C I G A C I N A I I C A N A W O O C C A G A A C I O C P O C I A I C O C C O O I O C C O C C A B O C C O C I O C I O 3 7 1 1

| 27 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|

000 ***** 000

| Age Group | Number of people |
|-----------|------------------|
| 0-20 | 10 |
| 20-40 | 20 |
| 40-60 | 30 |
| 60-80 | 40 |
| 80-100 | 50 |

RESULT 12

US-08-836-075A-57
; Sequence 57, Application US/08836075A

GENERAL INFORMATION:

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P O BOX 4433

CITY: HOUSTON
STATE: TEXASCOUNTRY: USA
ZIP: 77210-4433

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy

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;
; COMPILER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
;

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```

/ COLIMMENT: "MICROSOFT WORD 6.0 / MICROSOFT WORD 6.0"
; CURRENT APPLICATION DATA:

```

FILING DATE: 21 Apr 1997

APPLICATION NUMBER: PCT/EP95/041555

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-57

Query Match 71.8%; Score 244; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 1,2e-67;
Matches 274; Conservative 1; Mismatches 53; Indels 0; Gaps 0;
QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCGACAGTTACTGAGAAAGCACTTGTCTGAGAGATCAATCTACAGTGTGTGACTTG 61
QY 62 GACCCGAGGCTCGCAGAGCCATAAGTTCCTCACAAGAGAGCTTTATATCGGGGCTCC 121
DB 62 GCCCCGAGGCGCCGAGAGCCATAAGTTCCTCACAAGAGAGCTTTATATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGAAGCTGCGGCTACCGCGATCCCGGCAAGGCGGTCTG 181
DB 122 CTACACCACTCAAAAGGCGAAGCTGCGGCTACCGCTGCTGCGCGAGCGGTCTG 181
QY 182 ACAGTACTGCTGCGCAACCTCCTGTTACATTAAGGCGAGGCGAGCTGTGAGCT 241
DB 182 ACTACAGCTGCGGTAATACCTTCACTGTTAAGGCGAGGCGAGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATGTTCTCATGCTGTGTGCGAGCACTTTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGATGTTCTCATGCTGTGTGCGAGCACTTTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGCGA 329
DB 302 AGTGGGAGTCCAGAGAGATGCGCGA 329

RESULT 13
US-09-014-416-4
Sequence 4, Application US/09014416
Patent No. 6153421
GENERAL INFORMATION:
APPLICANT: Yanagii, Masaayuki
APPLICANT: Bukh, Jens
APPLICANT: Emerson, Susanne U.
APPLICANT: Purcell, Robert H.
TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
FILE REFERENCE: 20264276
CURRENT APPLICATION NUMBER: US/09/014,416
EARLIER FILING DATE: 1998-01-27
EARLIER APPLICATION NUMBER: US 60/053,062
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 9595
TYPE: DNA
ORGANISM: Hepatitis C virus
US-09-014-416-4

Query Match 71.8%; Score 243.4; DB 3; Length 9595;
Best Local Similarity 83.8%; Pred. No. 6.8e-67;
Matches 274; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
QY 62 GACCCGAGGCTCGCAGAGCCATAAGTTCCTCACAAGAGAGCTTTATATCGGGGCTCC 121
DB 62 GCCCCGAGGCGCCGAGAGCCATAAGTTCCTCACAAGAGAGCTTTATATCGGGGCTCC 121
QY 122 CTGACAACTCAAAAGGCGAAGCTGCGGCTACCGCGATCCCGGCAAGGCGGTCTG 181
DB 122 CTGACAACTCAAAAGGCGAAGCTGCGGCTACCGCGATCCCGGCAAGGCGGTCTG 181
QY 182 ACAGTACTGCTGCGCAACCTCCTGTTACATTAAGGCGAGGCGAGCTGTGAGCT 241
DB 182 ACAGTACTGCTGCGCAACCTCCTGTTACATTAAGGCGAGGCGAGCTGTGAGCT 241
QY 242 GCGAAGCTCCAGATGTTCTCATGCTGTGTGCGAGCACTTTGTTATCTGCGAG 301
DB 242 GCGAAGCTCCAGATGTTCTCATGCTGTGTGCGAGCACTTTGTTATCTGCGAG 301
QY 302 ATCGAGGGGNTCCANGAGATCCGCGA 328
DB 302 AGTGGGAGTCCAGAGAGATGCGCGG 8600

RESULT 14
US-08-441-971-6
Sequence 6, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-May-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-441-971-6

Query Match 71.4% Score 242.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.9e-67;
Matches 274; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 2 TCAACAGTCACTGAGATGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTA 61
DB 2 TCTACAGTCACTGAGAGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTG 61
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DB 62 GACCCCGAGGCTCGGTCATCAAGTCCCTCACAAGAGGCTTTATATGTTGGGGGCTCT 121
QY 122 CTGACAACTCAAAAAGGCGAGACCTGCGGCTACCGCGGATGCCGTCAGAGGGGCTCCTG 181
DB 122 CTTACCAATTCAGAGGGGAGAACTGCGGCTACCGAGTGCAGAGGCGGCTACTG 181
QY 182 ACGACTAGCTGCGGCAACCCCTCACTGTTACATTAAGGCGAGGCGAGCTGTGAGCT 241
DB 182 ACGACTAGCTGTGTATATCCCTCACTGTTACATCAAGGCGGCGAGCTGTGAGCTG 241
QY 242 GCGAAGCTCCAGATTGCTCAATGCTGTGTGGCGAGCACTTGTGTTATCTGCGAG 301
DB 242 GCGAGGCTCCAGAGCTGCAACATGCTGTGTGGCGAGCACTAGTGTATCTGCGAA 301
QY 302 ATCGAGGGGNTCCANGAGATCCGTCGA 329
DB 302 AGTGGGGGTCCAGAGAGCGGCGGA 329

RESULT 15

US-08-221-653-6

Sequence 6, Application US/08221653

Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiak, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sp2
US-08-221-653-6

Query Match 71.4% Score 242.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.9e-67;
Matches 274; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

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DB 2 TCTACAGTCACTGAGAGATATCCGTACAGAGAGTCCATCTACCAATGCTGTGATCTG 61
QY 62 GACCCCGAGGCTCGCAGAGCCATTAAGTCCCTCACAAGAGGCTTTATATCGGGGGTCCC 121
DB 62 GACCCCGAGGCTCGGTCATCAAGTCCCTCACAAGAGGCTTTATATGTTGGGGGCTCT 121
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QY 242 GCGAAGCTCCAGATTGCTCAATGCTGTGTGGCGAGCACTTGTGTTATCTGCGAG 301
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 201.227 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-65
Perfect score: 831
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Scoring table: IDENTITY NUC
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Searched: 1303057 seqs, 888780828 residues

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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 536.8 | 64.6 | 1863 | 2 | US-08-470-426B-14 |
| 3 | 535.2 | 64.4 | 9595 | 3 | US-09-014-416-4 |
| 4 | 535.2 | 64.4 | 9599 | 3 | US-09-014-416-6 |
| 5 | 533 | 64.1 | 2433 | 3 | US-08-612-973-49 |
| 6 | 533 | 64.1 | 2433 | 3 | US-08-927-597-49 |
| 7 | 533 | 64.1 | 2433 | 3 | US-08-928-757-49 |
| 8 | 528.8 | 63.4 | 9413 | 3 | US-09-827-688-6 |
| 9 | 527.2 | 63.4 | 2116 | 3 | US-08-191-160-21 |
| 10 | 527.2 | 62.9 | 9472 | 3 | US-08-150-204E-96 |
| 11 | 521.8 | 62.8 | 1539 | 2 | US-08-470-426B-17 |
| 12 | 521.6 | 62.8 | 11076 | 3 | US-09-539-601-1 |
| 13 | 521.6 | 62.8 | 11076 | 3 | US-09-539-601-19 |
| 14 | 521.6 | 62.8 | 11076 | 3 | US-09-539-601-25 |
| 15 | 521.6 | 62.8 | 11076 | 3 | US-09-539-601-31 |
| 16 | 517.6 | 62.3 | 9275 | 3 | US-10-259-275-39 |
| 17 | 516.6 | 62.2 | 1037 | 2 | US-08-462-195-1 |
| 18 | 516.6 | 62.2 | 1037 | 2 | US-08-462-195-3 |
| 19 | 516.6 | 62.2 | 1037 | 2 | US-08-636-883-1 |
| 20 | 516.6 | 62.2 | 1037 | 2 | US-08-636-883-3 |
| 21 | 516.6 | 62.2 | 1037 | 2 | US-09-127-829-1 |
| 22 | 516.6 | 62.2 | 1037 | 3 | US-09-127-829-3 |
| 23 | 516 | 62.1 | 1499 | 2 | US-08-324-977-3 |
| 24 | 516 | 62.1 | 1499 | 2 | US-08-384-616-3 |

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|----|-------|------|------|---|-------------------|--------------------|
| 25 | 516 | 62.1 | 1499 | 2 | US-08-304-686A-3 | Sequence 3, Appl1 |
| 26 | 516 | 62.1 | 1499 | 3 | US-09-315-850-3 | Sequence 3, Appl1 |
| 27 | 516 | 62.1 | 9416 | 2 | US-08-324-977-1 | Sequence 1, Appl1 |
| 28 | 516 | 62.1 | 9416 | 2 | US-08-384-616-1 | Sequence 1, Appl1 |
| 29 | 516 | 62.1 | 9416 | 2 | US-08-304-686A-1 | Sequence 1, Appl1 |
| 30 | 516 | 62.1 | 9416 | 3 | US-09-315-850-1 | Sequence 27, Appl1 |
| 31 | 516 | 62.1 | 9416 | 3 | US-08-323-895A-27 | Sequence 9, Appl1 |
| 32 | 501 | 60.3 | 1167 | 2 | US-08-324-977-9 | Sequence 9, Appl1 |
| 33 | 501 | 60.3 | 1167 | 2 | US-08-384-616-9 | Sequence 9, Appl1 |
| 34 | 501 | 60.3 | 1167 | 2 | US-08-304-686A-9 | Sequence 9, Appl1 |
| 35 | 501 | 60.3 | 1167 | 3 | US-09-315-850-9 | Sequence 11, Appl1 |
| 36 | 501 | 60.3 | 6039 | 2 | US-08-324-977-11 | Sequence 11, Appl1 |
| 37 | 501 | 60.3 | 6039 | 2 | US-08-384-616-11 | Sequence 11, Appl1 |
| 38 | 501 | 60.3 | 6039 | 2 | US-08-304-686A-11 | Sequence 11, Appl1 |
| 39 | 501 | 60.3 | 6039 | 3 | US-09-315-850-11 | Sequence 13, Appl1 |
| 40 | 501 | 60.3 | 9030 | 2 | US-08-324-977-13 | Sequence 13, Appl1 |
| 41 | 501 | 60.3 | 9030 | 2 | US-08-384-616-13 | Sequence 13, Appl1 |
| 42 | 501 | 60.3 | 9030 | 2 | US-08-304-686A-13 | Sequence 13, Appl1 |
| 43 | 501 | 60.3 | 9030 | 3 | US-09-315-850-13 | Sequence 9, Appl1 |
| 44 | 475.2 | 57.2 | 9401 | 6 | PCT-US91-02225-9 | Sequence 176, App |
| 45 | 473.6 | 57.0 | 9379 | 3 | US-08-444-818-176 | |

ALIGNMENTS

RESULT 1
US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOID, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS: 004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-65

Query Match 99.8%; Score 829.6; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 5.6e-240;
Matches 831; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAAAGAAAAACCAACGTAACATC 60
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DB 61 AACCGCGCCCAACAGACGTAAGTTCCCGGCGGTGCGCAGATGTCGAGATTAC 120
QY 121 CTGTTGCCGCGAGAGGGCCCTAGATTGGGTGTGCGCGGACTAGAGAACTTCCGAGGG 180
DB 121 CTGTTGCCGCGAGAGGGCCCTAGATTGGGTGTGCGCGGACTAGAGAACTTCCGAGGG 180
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DB 181 TCGCAACCTCGTGGAGGCGACAGAGCTATCCCAAGGCTCGCCGATCCGAGGCGAGTCC 240
QY 241 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 300
DB 241 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 300
QY 301 TGGCTCTGTCCTCCCATAGTCTCCCGGCGCTAGTGGGGCCCTTACAGACCCCGCGTAA 360
DB 301 TGGCTCTGTCCTCCCATAGTCTCCCGGCGCTAGTGGGGCCCTTACAGACCCCGCGTAA 360
QY 361 TCGCGTAATTTGGGTAAGTATCGATACCTCTACATCGGCTTGCAGGCTCTACAGG 420
DB 361 TCGCGTAATTTGGGTAAGTATCGATACCTCTACATCGGCTTGCAGGCTCTACAGG 420
QY 421 TACATTCGCTGTGCGGCGCCCTCTAGAGGCGCTTGCAGGCGCTTGCAGGCGCTTGC 480
DB 421 TACATTCGCTGTGCGGCGCCCTCTAGAGGCGCTTGCAGGCGCTTGCAGGCGCTTGC 480
QY 481 CGGGAATCAACACGTCACCAAGATTTGTTCCAAATGGAGCATTTGTTAGAGGCGGAA 540
DB 481 CGGGAATCAACACGTCACCAAGATTTGTTCCAAATGGAGCATTTGTTAGAGGCGGAA 540
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DB 601 CTGGGTACCGTTTCCCAAGCTGAGCCAGGAATGCTAGCGTCCCACTCAGGCAAT 660
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QY 721 GGAACCTCTGTGGGTCTGCTTCTCTGTTGGGCGCACTGTTCACTTCAACCCCGCAANA 780
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QY 781 CTACACAGTGCAGACTGCAATTTGTTCAATCTACCCCGGCGCATATACGGG 831
DB 781 CTACACAGTGCAGACTGCAATTTGTTCAATCTACCCCGGCGCATATACGGG 831
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RESULT 2
US-08-470-426B-14

Sequence 14, Application US/08470426B

Patent No. 5856458

GENERAL INFORMATION:

APPLICANT: Okamoto, Hiroaki

APPLICANT: Nakamura, Tetsuo

TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR

TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B

TITLE OF INVENTION: HEPATITIS VIRUS
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young,
ADDRESSEE: L.L.P.
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/470,426B

FILING DATE: 06-JUN-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-153402

FILING DATE: 12-JUN-1990

ATTORNEY/AGENT INFORMATION:

NAME: Wellacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/59-47083.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 1863 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: unknown

MOLECULE TYPE: DNA (genomic)

US-08-470-426B-14

Query Match 64.6%; Score 536.8; DB 2; Length 1863;
Best Local Similarity 76.4%; Pred. No. 1.7e-151;
Matches 733; Conservative 0; Mismatches 98; Indels 128; Gaps 1;

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QY 1 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAAAGAAAAACCAACGTAACATC 60
DB 310 CGTAGACCGTGCACATGAGACGAACTCTAAACCTCAAAAGAAAAACCAACGTAACATC 369
QY 61 AACCGCGCCCAACAGACGTAAGTTCCCGGCGGTGCGCAGATGTCGAGATTAC 120
DB 370 AACCGCGCCCAACAGACGTAAGTTCCCGGCGGTGCGCAGATGTCGAGATTAC 429
QY 121 CTGTTGCCGCGAGAGGGCCCTAGATTGGGTGTGCGCGGACTAGAGAACTTCCGAGCGG 180
DB 430 CTGTTGCCGCGAGAGGGCCCTAGATTGGGTGTGCGCGGACTAGAGAACTTCCGAGCGG 489
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DB 241 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 300
QY 300 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 360
DB 550 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 609
QY 609 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGAGCAATGAGGGCATGGTTGGGCAAGG 669
DB 301 TGGCTCTGTCCTCCCATAGTCTCCCGGCGCTAGTGGGGCCCTTACAGACCCCGCGTAA 360
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QY 480 TGGCTCTGTCCTCCCATAGTCTCCCGGCGCTAGTGGGGCCCTTACAGACCCCGCGTAA 540
DB 361 TCGGTAATTTGGGTAAGTATCGATACCTCTACATCGGCTTGCAGGCTCTACAGG 420
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RESULT 3
US-09-014-416-4
; Sequence 4, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Buhk, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; EARLIER FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 9595
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-014-416-4

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Query Match 64.4%; Score 535.2; DB 3; Length 9595;
Best Local Similarity 76.3%; Pred. No. 1,1e-150;
Matches 732; Conservative 0; Mismatches 99; Indels 128; Gaps 1;
Qy 1 CGTAGACCTGACCAATGAGACGAATCTTAACCTCAAGAAAAACCAACGTAACATC 60
Db 327 CGTAGACCTGACCAATGAGACGAATCTTAACCTCAAGAAAAACCAACGTAACAC 386
Qy 61 AACCGCGCCACACAGAGCTCAAGTTCGCGGCGGTGCGCAGATCGTGGGAGATTAC 120
Db 387 AACCGCGCCACACAGAGCTCAAGTTCGCGGCGGTGCGCAGATCGTGGGAGATTAC 446
Qy 121 CTGTTCCGCGAGGCGCTTAGATTGGGTGCGCGCACTAGAAAGACTTCCGACGG 180
Db 447 CTGTTCCGCGAGGCGCTTAGATTGGGTGCGCGCACTAGAAAGACTTCCGACGG 506

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Db 567 TGGGCTCAGCCCGGATACCTTGGCCCTCTATAGCAATGAGGCAATGGGTTGGCAGG 626
Qy 301 TGGGCTCAGCCCGGATACCTTGGCCCTCTATAGCAATGAGGCAATGGGTTGGCAGG 360
Db 627 TGGGCTCAGCCCGGATACCTTGGCCCTCTATAGCAATGAGGCAATGGGTTGGCAGG 686
Qy 361 TCGGTAATTTGGGTAAGGATCATGATACCTTCAATGCGGCTTTCGCGCACTCATGGG 420
Db 687 TCGGTAATTTGGGTAAGGATCATGATACCTTCAATGCGGCTTTCGCGCACTCATGGG 746
Qy 421 TACATTCGCTGCTGGGCGGCGGCTTGAAGGGGCGTTGCGAGGCGCTG----- 468
Db 747 TACATTCGCTGCTGGGCGGCGGCTTGAAGGGGCGTTGCGAGGCGCTG----- 806
Qy 469 ----- 468
Db 807 CGGATTCGAGGAGCGGCGTGAATATGCAACAGGAACTTGGCCGGTGTCTTCTCT 866
Qy 469 -----GCGC 472
Db 867 ATCTTCTCTTGGGCTCTGCTGTCTCTGTTTGAACATCCAGCTTCCGTTATGAAGTGGC 926
Qy 473 AAGGCTTCGGGATCTACCAAGTCAACAGATGTTTCCATGAGGAGATGTTGATGAG 532
Db 927 AAGGCTTCGGGATCTACCAAGTCAACAGATGTTTCCATGAGGAGATGTTGATGAG 966
Qy 533 GCGGAAGGATGATCATGATCTTCCCGGTTGGGGTCCGCTTGGGGAAGTAATATC 592
Db 987 GCGGAAGGATGATCATGATCTTCCCGGTTGGGGTCCGCTTGGGGAAGTAATATC 1046
Qy 593 TCTGTTGCTGGGATCGGTTTCCCAACGCTGCAAGCAAGATGCTAGCCGACT 652
Db 1047 TCCGTTGCTGGGATCGGTTTCCCAACGCTGCAAGCAAGATGCTAGCCGACT 1106
Qy 653 CAGGCAATTCGGGACACAGTGCAGACTGCTGTTGGGGCGGCAACTGTTGCTATG 712
Db 1107 ACGCAATACGACGCAACGCTGCTGTTGGGAGCGGCTGTTGCTCCGCTATG 1166
Qy 713 TATGTGGGGGACCTGTGGGATCGGTTTCTCTGTTGGGCAACTGTTCACTTCAAMCC 772
Db 1167 TATGTGGGGGATCTGTGGGATCGGTTTCTCTGTTGGGCAACTGTTCACTTCTCCCT 1226
Qy 773 CGCCAGNACTACACAGTGCAGACTGCATTTTCATCTACCCCGGCAATATACGG 831
Db 1227 CGCCGATGAGACAGTGCAGACTGCATTTTCATCTATCCCGGCAATATACAGG 1285

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RESULT 4
US-09-014-416-6
; Sequence 6, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Buhk, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; EARLIER FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6

```

LENGTH: 9599
 TYPE: DNA
 ORGANISM: Hepatitis C virus
 US-09-014-416-6

Query Match 64.4%; Score 535.2; DB 3; Length 9599;
 Best Local Similarity 76.3%; Pred. No. 1.1e-150;
 Matches 732; Conservative 0; Mismatches 99; Indels 128; Gaps 1;

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QY 1 CGTAGACCGTGCACATGACGACGATTCCTAACCTCAACCAAAAAACCAACGTAACATC 60
D 1 |||||
QY 327 CGTAGACCGTGCACATGACGACGATTCCTAACCTCAACCAAAAAACCAACGTAACATC 386
D 327 |||||
QY 61 AACCGCGCCCAACAGAGAGTCCGCGGCGGTGCGCAGATCGTGGAGTTTAC 120
D 61 |||||
QY 387 AACCGCGCCCAACAGAGAGTCCGCGGCGGTGCGCAGATCGTGGAGTTTAC 446
D 387 |||||
QY 121 CTGTTGCCGCGACAGGCGCTTAGATTGGGTGCGCGGCACTAGAGAACCTTCCGAGCGG 180
D 121 |||||
QY 447 CTGTTGCCGCGACAGGCGCTTAGATTGGGTGCGCGGCACTAGAGAACCTTCCGAGCGG 506
D 447 |||||
QY 181 TCGAACCTCGTGGAGAGCGCAAGCTTATCCCAAGGTGCGCGCATCCGAGGCGAGTCC 240
D 181 |||||
QY 507 TCGAACCTCGTGGAGAGCGCAAGCTTATCCCAAGGTGCGCGCATCCGAGGCGAGGCGC 566
D 507 |||||
QY 241 TGGGCTGAGCCCGGAGTACCTTTGGCCCTTATGGCAATGAGGCGATGGTTGGGCAAGG 300
D 241 |||||
QY 567 TGGGCTGAGCCCGGAGTACCTTTGGCCCTTATGGCAATGAGGCGATGGTTGGGCAAGG 626
D 567 |||||
QY 301 TGGGCTGAGCCCGGAGTACCTTTGGCCCTTATGGGAGCCCTTGAACCCCGGCGTAGG 360
D 301 |||||
QY 627 TGGCTCCGTGACCCCGGCGCTCCCGGCTGATGGGGGCCCAAGAGCCCGGCGTAGG 686
D 627 |||||
QY 361 TCGGGTATTTGGGTAAGTATGATACCTTCATAGCGGCTTCGCGAGCTGATAGGG 420
D 361 |||||
QY 687 TCGGGTATTTGGGTAAGTATGATACCTTCATAGCGGCTTCGCGAGCTGATAGGG 746
D 687 |||||
QY 421 TACATTCGCTGTCGCGGCGCCCTTAGGGGCGGTGCGAGGCGCTT----- 468
D 421 |||||
QY 747 TACATTCGCTGTCGCGGCGCCCTTAGGGGCGGTGCGAGGCGCTTGGCACAGGTGTC 806
D 747 |||||
QY 469 ----- 468
D 469 -----
QY 807 CGGGTTCTGAGAGA CGGCGTGAACTATGCAACAGGAACTTGC CGGTTCTTCTCT 866
D 807 |||||
QY 469 -----GGC 472
D 469 -----
QY 867 ATCTTCCTTGGCTCTGCTCTGCTGTGCAATCCAGCTTCCGCTTATGAAGTGGC 926
D 867 |||||
QY 473 AAGGCTTCGGGATCTACAGTCAACAAAGATTGTTCAATGGAGCATTTGTGATAG 532
D 473 |||||
QY 927 AAGGCTTCGGGATCTACAGTCAACAAAGATTGTTCAATGGAGCATTTGTGATAG 986
D 927 |||||
QY 533 GCGAAGGATGATCATCTCTCCCGGAGTGCCTGCGCTCGTTGGGAAAGTAAATATC 592
D 533 |||||
QY 987 GCGAAGGATGATCATCTCTCCCGGAGTGCCTGCGCTCGTTGGGAAAGTAAATATC 1046
D 987 |||||
QY 593 TCTGTTCTGGGTAAGCTTTTCCCGCAGCTCGAGCAGAGATGTAAGGTCCCACT 652
D 593 |||||
QY 1047 TCCCGTTGCTGGTAAGCTCTCACTCCACGCTCGGAGCAGAGATGCAAGGTCCCACT 1106
D 1047 |||||
QY 653 CAGGAATTCGGGCAACAGTCACTTGTGTTGGGGGCGGCAACATCTGTTGCTATG 712
D 653 |||||
QY 1107 ACGACATATGACACCGCAAGTCACTTGTGTTGGGAGGCGCTCTTGTGCTCGCTATG 1166
D 1107 |||||
QY 713 TATGTGGGGGACCTCTGTGGGTCCGCTTCTCTGTCGCGCAACTGTTACCTTCAACWC 772
D 713 |||||
QY 1167 TACGTGGGGGATCTCTGCGGATCTATTTTCTCGCTCCAGCTGTTCACTTCCGCT 1226
D 1167 |||||
QY 773 CGCGAAGATCAACAGTCAAGATGCAATGTTTCAATCTACCCCGGCAATATAAGG 831
D 773 |||||
QY 1227 CGCGGCGATGAGACAGTCAAGATGCAATGTTTCAATCTACCCCGGCAATATAAGG 1285
D 1227 |||||

```

RESULT 5 US-08-612-973-49

Sequence 49; Application US/08612973

Patent No. 6150134

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: BOSMAN, FONS

APPLICANT: DE MARTYNOFF, GUY

APPLICANT: BUUSE, MARIE-ANGE

TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE

TITLE OF INVENTION: PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHAYE P.C.

STREET: 1100 NORTH GLOBE ROAD

CITY: ARLINGTON

STATE: VIRGINIA

COUNTRY: U.S.A.

ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/612,973

FILING DATE: 11-MAR-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BYRNE, THOMAS E.

REGISTRATION NUMBER: 32,205

REFERENCE/DOCKET NUMBER: 1487-10

TELEPHONE: (703) 816-4000

TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:

LENGTH: 2433 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

FEATURE:

NAME/KEY: CDS

LOCATION: 1..2430

FEATURE:

NAME/KEY: mat.peptide

LOCATION: 1..2427

US-08-612-973-49

Query Match 64.4%; Score 533; DB 3; Length 2433;
 Best Local Similarity 76.8%; Pred. No. 2.6e-150;
 Matches 725; Conservative 0; Mismatches 91; Indels 128; Gaps 1;

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QY 16 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTAACTCAACCGCCGCCACAG 75
D 16 |||||
QY 1 ATGAGCAGATCTTAACCTCAAGAAAAACCAAGTAACTCAACCGCCGCCACAG 60
D 1 |||||
QY 76 GAGCTCAAGTTCCGGGCGGTGCGCAGATCGTGGGAGTTTACCTGTTGCGCGCAGG 135
D 76 |||||
QY 61 GAGCTCAAGTTCCGGGCGGTGCGCAGATCGTGGGAGTTTACCTGTTGCGCGCAGG 120
D 61 |||||
QY 136 GGCCTTGAATGGGTGTGCGCGGACCTAGAGAACTTCCAGCGGTGCAACCTCGTGG 195
D 136 |||||
QY 121 GGCCTTGAATGGGTGTGCGCGGACCTAGAGAACTTCCAGCGGTGCAACCTCGTGG 180
D 121 |||||
QY 196 AGGCGAAGCTTATCCCAAGGCTCGCGGATCCGAGGCGAGGTCTTGGGCTCAGCCGGG 255
D 196 |||||
QY 181 AGGCGAAGCTTATCCCAAGGCTCGCGGATCCGAGGCGAGGTCTTGGGCTCAGCCGGG 240
D 181 |||||

```

| | | | |
|----|-----|---|-----|
| OY | 256 | TACCCCTGGCCCCCTCATATGGCAATAGAGGCAATGGGTTGGAGCAGGGGTGGCTTCGTCCCC | 315 |
| Db | 241 | TACCCCTGGCCCCCTCATATGGCAATAGAGGCAATGGGTTGGAGCAGGGGTGGCTTCGTCCCC | 300 |
| OY | 316 | CATGAGCTCCGGGCTTAGTTGGGGCCCTTACAGACCCCGGGGTAGTGCCTAATTTGGGT | 375 |
| Db | 301 | CGGGGCTCTCGGGCTTAGTTGGGGCCCTTACAGACCCCGGGGTAGTGCCTAATTTGGGT | 360 |
| OY | 376 | AAGGTATCATGATACCTCTCAATGCGGGCTTTCGCCAGCTCAATGGGGTACATTCGGCTGTC | 435 |
| Db | 361 | AAGGTATCATGATACCTCTTACATGCGGGCTTTCGCCAGCTCGTGGGGTACATTCGGCTGTC | 420 |
| OY | 436 | GGCGCCCCCTTAGGGGGGGCTTGGCAGGAGCCCTTGGCGAAGGC----- | 477 |
| Db | 421 | GGCGCCCCCTTAGGGGGGGCTTGGCAGGAGCCCTTGGCGATGGCGTCCGGGTTCTGAGAGAC | 480 |
| OY | 478 | ----- | 477 |
| Db | 481 | GGCGTGAACCTATGCAACAGGGAAATTTGCCCGGTGCTCTTTCCTATCTTCCTTGCT | 540 |
| OY | 478 | -----TTCCGGGATC | 487 |
| Db | 541 | TTGCTGTCTCTGTCTGACCGTTCCAGGCTTCGCGTTATGAAAGTGGCAACGTTGCCGGATG | 600 |
| OY | 488 | TACCAAGTCACCAACGATTTGTTCCAAATGGAGCATTGTATGATAGAGCGGAGGCATGATC | 547 |
| Db | 601 | TACCAATGTCACGAACGATGCTTCCAACTCAAGCATTTGTGATATGAGGACGGACATGATC | 660 |
| OY | 548 | ATGCATCTCCCGGGGTGCTGCTCCCTGCGTTCCGGGAAGTAAATATCTCTGTTGCTGGGTA | 607 |
| Db | 661 | ATGCACACCCCGGGGTGCTGCTCCCTGCGTTCCGGGAACAACATCTTCCGCTGCTGGGTA | 720 |
| OY | 608 | CGGTTTTCCCCACAGCGTGCAGCGCAGAAATGCTAGGGTCCCCCACTCAGGCAATTCGAGCA | 667 |
| Db | 721 | GGGCTCAACCCCAACGCTCGCAAGCTAGAAACGCAAGGTTCCCAACACGACAAATACAGACG | 780 |
| OY | 668 | CACGTGCACTTGCTTTTGGGGCGGCAACATCTGTTCTGCTATGTATGTGGGGGACCTC | 727 |
| Db | 781 | CACGTGCAATTTGCTGTTGGGGCGGCTGCTTCTGTTCTGCTATGTATGTGGGGGACCTC | 840 |
| OY | 728 | TGTGGGTCCGTTCTCTCGTGGGCCAATGTTCACTTACAMCCCGCCAGAACTACACA | 787 |
| Db | 841 | TGCGGATCTGCTTCCGTTCCGTTCCCAAGCTGTTACACATCTCGCTCGCCGGCATGAGACG | 900 |
| OY | 788 | GTGCAAGACTGCAATTTGTCATCTTACCCCGGCAATATAACGGG | 831 |
| Db | 901 | GTGCAAGACTGCAATTTGTCATCTTATCCCGGCAATATAACGGG | 944 |

Db 541 TTGCTGTCTGTCTGACCGTTCAGCTTCGCTTATGAAAGTGGCCAACTGTCTCCGGATG 600
 Qy 488 TACACGCTACCAAGATGTTTCCAAATGGAGCAATTGATGAGGGCGAAGGCAATGATC 547
 Db 601 TACCATGTACGAACGACTGCTCCAACTCAAGATTGTATGAGGCGACGCAATGATC 660
 Qy 548 ATGCATCTCCCCGGGGTGGTCCCTGCGTTGCGGAAGTAATATCTCTGTTGCTGGATA 607
 Db 661 ATGCACACCCCGGGGTGGTCCCTGCGTTGCGGAAGTAATATCTCTGTTGCTGGATA 720
 Qy 608 CCGTTTTCCTCCAGCTGCGACGCAAGCAATGCTGCTCCCACTCAGGCAATTCGGCGA 667
 Db 721 GCGCTCACCCCGAGCTGCGAGTGAAGAACCGCGCTCCACACGCAATACGAGCG 780
 Qy 668 CAGCTGCACTGTTGTTGGGGCGGCGCACTGTTCTGCTATGTAATGTTGGGGAGCTC 727
 Db 781 CAGCTGCAATTTGCTGTTGGGGCGGCTGCTGTTCTGTTGCTATGTAATGTTGGGGAGCTC 840
 Qy 728 TGTGGGTCCTGTTCTGCTGTCGCGCAACTGTTCACTTTCACAMCCCGCAGACTAGACA 787
 Db 841 TGGGATCTGTTCTGCTGTCCTCCAGCTGTTCAACATCTGCGCTCGCGCATGAGACG 900
 Qy 788 GTGCAAGACTGCAATTTGTCATCTACCCCGGCAATTAACGG 831
 Db 901 GTGCAAGACTGCAATTTGTCATCTACCCCGGCAATTAACGG 944

RESULT 7

US-08-928-757-49

Sequence 49, Application US/08928757

Patent No. 6890737

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

BOSMAN, FONS

DE MARTINOFF, GUY

BUYSE, MARIE-ANGE

TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE

PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHAYE P. C.

STREET: 1100 NORTH GLEBE ROAD

CITY: ARLINGTON

STATE: VIRGINIA

COUNTRY: U.S.A.

ZIP: 22201-4714

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/928,757

FILING DATE: 12-Sep-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/612,973

FILING DATE: 11-MAR-1996

ATTORNEY/AGENT INFORMATION:

NAME: BYRNE, THOMAS E.

REGISTRATION NUMBER: 32,205

REFERENCE/DOCKET NUMBER: 1487-10

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 816-4000

TELEFAX: (703) 816-4100

INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:

LENGTH: 2433 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..2430
 FEATURE:
 NAME/KEY: mat_peptide
 LOCATION: 1..2427
 SEQUENCE DESCRIPTION: SEQ ID NO: 49:
 US-08-928-757-49

Query Match 64.1%; Score 533; DB 3; Length 2433;
 Best Local Similarity 76.8%; Pred. No. 2, 6e-150;
 Matches 725; Conservative 0; Mismatches 91; Indels 128; Gaps 1;

Qy 16 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGTAACATCAACGCGCCACAG 75
 Db 1 ATGAGCAGCAATCTTAAACCTCAAGAAAAACCAAGTAACATCAACGCGCCACAG 60
 Qy 76 GACGTCAAGTTCGCGGCGGTGCGCAATGTCGTTGAGATTACCTGTTCCGCGCAGG 135
 Db 61 GACGTCAAGTTCGCGGCGGTGCGCAATGTCGTTGAGATTACCTGTTCCGCGCAGG 120
 Qy 136 GCGCTTAGATTGGGTGTGCGCGGACTAGAGAAATTTCCAGCGGTGCAACTCTGTGGG 195
 Db 121 GCGCTTAGATTGGGTGTGCGCGGACTAGAGAAATTTCCAGCGGTGCAACTCTGTGGG 180
 Qy 196 AGCGCAGCGCTATCCCAAGGCTCGCGCATCCGAGGAGAGTCTGAGGCTCAGCCGAG 255
 Db 181 AGCGCAGCGCTATCCCAAGGCTCGCGCATCCGAGGAGAGTCTGAGGCTCAGCCGAG 240
 Qy 256 TACCTTGGCCCTCTATAGCAATGAGGCGATGGGTTGGCAGAGTGGCTCTGTCCCC 315
 Db 241 TACCTTGGCCCTCTATAGCAATGAGGCGATGGGTTGGCAGAGTGGCTCTGTCCCC 300
 Qy 316 CATGGCTCCCGGCTTGTGGGCGCTTCAAGACCCCGGCTGAGTGGCTTAATTTGGGT 375
 Db 301 CGCGGCTCTGGCTTGTGGGCGCTTCAAGACCCCGGCTGAGTGGCTTAATTTGGGT 360
 Qy 376 AAGTCATGATACCTCATCATGCGGCTTGCAGACCTCATGAGGATTAATTTCCGTCGTC 435
 Db 361 AAGTCATGATACCTCATCATGCGGCTTGCAGACCTCATGAGGATTAATTTCCGTCGTC 420
 Qy 436 GCGCGCCCTTGAAGGCGGCTTGCAGAGGCTTGCAGAGGCTTGCAGAGGCTTGCAGAGG 477
 Db 421 GCGCGCCCTTGAAGGCGGCTTGCAGAGGCTTGCAGAGGCTTGCAGAGGCTTGCAGAGG 460
 Qy 478 ----- 477
 Db 481 GCGGTGAATATGCAACAGGAAATTTGCCGTTGCTTTCTTCTATCTTCTCTTGGCT 540
 Qy 478 ----- 477
 Db 541 TTGCTGTCTGTCTGACCGTTCAGCTTCGCTTATGAAAGTGGCCAACTGTCTCCGGATG 600
 Qy 488 TACACGCTACCAAGATGTTTCCAAATGGAGCAATTGATGAGGGCGAAGGCAATGATC 547
 Db 601 TACCATGTACGAACGACTGCTCCAACTCAAGATTGTATGAGGCGACGCAATGATC 660
 Qy 548 ATGCATCTCCCCGGGGTGGTCCCTGCGTTGCGGAAGTAATATCTCTGTTGCTGGATA 607
 Db 661 ATGCACACCCCGGGGTGGTCCCTGCGTTGCGGAAGTAATATCTCTGTTGCTGGATA 720
 Qy 608 CCGTTTTCCTCCAGCTGCGACGCAAGCAATGCTGCTCCCACTCAGGCAATTCGGCGA 667
 Db 721 GCGCTCACCCCGAGCTGCGAGTGAAGAACCGCGCTCCACACGCAATACGAGCG 780
 Qy 728 TGTGGGTCCTGTTCTGCTGTCGCGCAACTGTTCACTTTCACAMCCCGCAGACTAGACA 787
 Db 841 TGGGATCTGTTCTGCTGTCCTCCAGCTGTTCAACATCTGCGCTCGCGCATGAGACG 900

QY 788 GTGCAAGACTGCAATTTTCATCTACCCCGGCATATACGGG 831
 Db 901 GTGCAAGACTGCAATTTTCATCTATATCCCGGCATATACGGG 944

RESULT 8

US-09-827-688-6
 ; Sequence 6, Application US/09827688
 ; Patent No. 6821955
 ; GENERAL INFORMATION:
 ; APPLICANT: ORSON, FRANK
 ; APPLICANT: KINSEY, BERMA
 ; APPLICANT: BHOAGAL, BALBIR
 ; TITLE OF INVENTION: MACROPHAGE-INDUCED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION E
 ; TITLE OF INVENTION: AGENTS
 ; FILE REFERENCE: P01949051/10004014
 ; CURRENT FILING DATE: 2001-04-06
 ; PRIOR FILING DATE: 2000-04-07
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: Patent version 3.0
 ; SEQ ID NO: 6
 ; LENGTH: 9413
 ; TYPE: DNA
 ; ORGANISM: HEPATITIS C
 US-09-827-688-6

Query Match 63.6%; Score 528.8; DB 3; Length 9413;
 Best Local Similarity 75.9%; Pred. No. 9.3e-149;
 Matches 728; Conservative 0; Mismatches 103; Indels 128; Gaps 1;

QY 1 CGTAGACCGTGCACATGACGACCAATCTTAACCTCAAGAAAAACCAACGTAACATC 60
 Db 315 CGTAGACCGTGCACATGACGACCAATCTTAACCTCAAGAAAAACCAACGTAACATC 374
 QY 61 AACCGCGCGCCACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 120
 Db 375 AACCGCGCGCCACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 434
 QY 121 CTGTTCGCGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 180
 Db 435 CTGTTCGCGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 494
 QY 181 TCGCAACCTCGTGGAGGCGACAGCTATCCCAAGCTCGCCGATCCGAGGCGAGCTGC 240
 Db 495 TCGCAACCTCGTGGAGGCGACAGCTATCCCAAGCTCGCCGATCCGAGGCGAGCTGC 554
 QY 241 TGGGCTACGCGCGGCTACCTTGGCCCTCTATGCGCAATGAGGCGATGGGCTGGGCAAGG 300
 Db 555 TGGGCTACGCGCGGCTACCTTGGCCCTCTATGCGCAATGAGGCGATGGGCTGGGCAAGG 614
 QY 301 TGGCTCTGTGCCCCCATGAGCTCCGCGCTAGTTGGGCGCTTGACACCCCGGCGTAAG 360
 Db 615 TGGCTCTGTGCCCCCATGAGCTCCGCGCTAGTTGGGCGCTTGACACCCCGGCGTAAG 674
 QY 361 TCGGTAATTTGGGTAAGGTATGATACCTTCAATGCGGCTTGGCGGACCTTATGGGG 420
 Db 675 TCGGTAATTTGGGTAAGGTATGATACCTTCAATGCGGCTTGGCGGACCTTATGGGG 734
 QY 421 TACATTCGCGCTCGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 468
 Db 735 TACATTCGCGCTCGTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 794
 QY 469 ----- 468
 Db 795 CGGGTTCGAGGACGGGTAATGCAACAGGGAATCTGCCGGTTCCTTTCTCT 854
 QY 469 -----GGCG 472
 Db 855 ATCTTCCTTAGCTTGGCTGTGTGTTTGAACATCCAGCTTCGGTTAGAGGTGCGC 914

QY 473 AAGGCTTCGGGATCTACCACTGACCAAGATTTGTTCAATGGAGCATTTGTATAG 532
 Db 915 AAGGTCGGGATATATCATGTATACAGACGATGCTCAACTCAAGATTTGTATAG 974
 QY 533 GCGGAGGCAATGATCATGATCTTCCCGGGTGGTGGCTTGGCGTTGGGGAAGTAATC 592
 Db 975 GCAAGGCAATGATCATGACACACCCCGGGTGGTGGCTTGGCGTTGGGGAAGTAATTC 1034
 QY 593 TCTGTTGGGGAATGACGTTTCCCGGAGCTGCGAGCGAGGAATGCTAGGTCCTCACT 652
 Db 1035 TCCGTTGGTGGGATGAGCTTCACTCCAGCTGCGGCGAGGAACAGACGATCCCACT 1094
 QY 653 CAGGCAATTCGCGGACAGCTGCACTTGTGGGCGGCGCACTCTGTTGCTATAG 712
 Db 1095 ACAGCATATGAGCGGACGTCGATTTGCTGTTGGGCGGCTGCTCTGTTCCGCTATG 1154
 QY 713 TATGTTGGGGAATCTTGTGGGCTGCTTCTGTTGGGCGCACTGTTCACTTCAACWCC 772
 Db 1155 TACGTTGGGGAATCTTGTGGGCTGCTTCTGTTGGGCGCACTGTTCACTTCAACWCC 1214
 QY 773 GCGCAGNACTACACAGTGAAGACTGCAATTTGCTTACCCCGGCGCATATTAACGGG 831
 Db 1215 GCGCAGTGAAGAGGTAAGATGCAATTTGCTCAATTTCCCGGCGCATATTAACGGG 1273

RESULT 9

US-08-191-160-21
 ; Sequence 21, Application US/08191160
 ; Patent No. 6210675
 ; GENERAL INFORMATION:
 ; APPLICANT: Highfield, Peter Edmund
 ; APPLICANT: Rodgers, Brian Colin
 ; APPLICANT: Tedder, Richard Seton
 ; APPLICANT: Barbara, John Anthony James
 ; TITLE OF INVENTION: Viral Agent
 ; NUMBER OF SEQUENCES: 25
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Rothwell, Figsy, Ernst & Kurz
 ; STREET: 1700 K Street
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
 ; OPERATING SYSTEM: MS-DOS V3.2
 ; SOFTWARE: Wordperfect 5.0 (DOS text)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/191,160
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/628,516
 ; FILING DATE: 17 DEC 1990
 ; APPLICATION NUMBER: UK 89 28 562.1
 ; FILING DATE: 18 DEC 1989
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: UK 90 04 414.0
 ; FILING DATE: 27 FEB 1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: UK 90 04 814.1
 ; FILING DATE: 03 MAR 1990
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: E. Anthony F199
 ; REGISTRATION NUMBER: 27,195
 ; REFERENCE/DOCKET NUMBER: 1645-103A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 833-5740
 ; TELEFAX: (202) 833-5744
 ; INFORMATION FOR SEQ ID NO: 21:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 2116 base pairs

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; TYPE: nucleotide with corresponding protein
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to genomic RNA
; ORIGINAL SOURCE:
; ORGANISM: human; serum infectious for PT-NANBH
; IMMEDIATE SOURCE:
; LIBRARY: cDNA clones from 5' end of the genome
; FEATURE:
; LOCATION: from 308 to 2116 bp start of the PT-NANBH
; LOCATION: polyprotein
; OTHER INFORMATION: viral structural and non-structural
; OTHER INFORMATION: proteins
; US-08-191-160-21

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Query Match          63.4%; Score 527.2; DB 3; Length 2116;
Best Local Similarity 75.8%; Pred. No. 1.4e-148;
Matches 727; Conservative 0; Mismatches 104; Indels 128; Gaps 1;

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Oy 1 CGTAGACCGTGCACATGAGCAGCAATCTAAACCTCAAGAAAAACCAAGCTAACATC 60
Db 293 CGTAGACCGTGCACATGAGCAGCAATCTAAACCTCAAGAAAAACCAAGCTAACATC 352
Oy 61 AACCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATCTGCGAGTTTAC 120
Db 353 AACCGCGCCCAAGAGAGCTCAAGTTCCCGGCGGTGCGCAGATCTGCGAGTTTAC 412
Oy 121 CTGTGTCGCGCAGAGGGGCGCTAGATGGGTGTGCGCGGAGCTAGGAAGACTCCGAGCGG 180
Db 413 CTGTGTCGCGCAGAGGGGCGCTAGATGGGTGTGCGCGGAGCTAGGAAGACTCCGAGCGG 472
Oy 181 TCGCAACCTCGTGGAGAGCAGAGCTATCCCAAGCTCGCCGATCCGAGGAGGAGTCC 240
Db 473 TCGCAACCTCGTGGAGAGCAGAGCTATCCCAAGCTCGCCGATCCGAGGAGGAGTCC 532
Oy 241 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGCGCAATGAGGAGTGGTTGGGCAAGG 300
Db 533 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGCGCAATGAGGAGTGGTTGGGCAAGG 592
Oy 301 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGCGCAATGAGGAGTGGTTGGGCAAGG 360
Db 593 TGGGCTCAGCCCGGGTACCTTGGCCCTCTATGCGCAATGAGGAGTGGTTGGGCAAGG 652
Oy 361 TCGGCTAATTTGGGTAAGTATGATCCCTCAATGCGGCTTGCAGGAGCTGAGGAGG 420
Db 653 TCGGCTAATTTGGGTAAGTATGATCCCTCAATGCGGCTTGCAGGAGCTGAGGAGG 712
Oy 421 TACATTCGCTGTGCGGCGCCCTTGAAGGGGCGTTGCGAGGGCCCTGGCGCAAGGC-- 477
Db 713 TACATTCGCTGTGCGGCGCTCCCTTAGGGGCGCTGCGAGGGCCCTGGCGCAATGCGCTC 772
Oy 478 ----- 477
Db 773 CGGGTTCGAGAGCGGCGTGAATGCAACAGGGAATTAAACCGGTGCTCTTTCTCT 832
Oy 478 ----- 477
Db 833 ATCTTCCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTT 892
Oy 478 -----TTCCGGGATCTACACAGTCAACAGATTTGTTCAATGGAGAGATGTGTATGAG 532
Db 893 AACGATCCGGGATCTACACAGTCAACAGATTTGTTCAATGGAGAGATGTGTATGAG 952
Oy 533 GCGGAGGAGATGATGATGATCTCCCGGGGTGCGGCTTGGCTTGGGAGGTAATATC 592
Db 953 ACAGGAGGATGATGATGATGATCAACCCCGGGGTGTGTCCTGTGTCCGGAGAGTAATTC 1012
Oy 593 TCTCGTTCGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 652
Db 1013 TCCGCTCTGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1072
Oy 653 CAGGCAATTCGCGCAGCGTGAATGCTTGTGGGGGCGGCAACTGTGTTCTGCTATG 712

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Db 1073 GCGACATACAGCAGCAGCAGTGAATTGCTGTTGGGGCGGCTGCTTGTGCTCGCTATG 1132
Oy 713 TATGTTGGGGAGACCTGTGTGGGTGCTGCTTGTGCTGCGGCAACTGTTCACCTTCAACMC 772
Db 1133 TACGTGGGGAGATCTGCGGATCTGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1192
Oy 773 GCGCAGNACTACAGAGTCAAGAGCTGCAATTTGTTCAATCAACCCGCGCATATTAAGGG 831
Db 1193 GCGCAGATACAGAGGATCAAGAGCTGCAATTTGTTCAATCAATCAATCCGCGCATATCAGG 1251

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```

RESULT 10
US-08-150-204B-96
; Sequence 96, Application US/08150204E
; Patent No. 6538126

```

GENERAL INFORMATION:

```

APPLICANT: CHO, Doong Myung
LEE, Yong Beom
PARK, Young Woo
LIM, Kook Jin
CHOI, Deog Young
SO, Hong Seob
KIM, Chun Hyung
KIM, Sung Taek
YANG, Jae Young
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSER: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340

```

COMPUTER READABLE FORM:

```

MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/150,204E
FILING DATE: 20-Apr-1994
CLASSIFICATION: <Unknown>

```

PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: KR 91-9510
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: KR 91-13601
FILING DATE: 6-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Shahan Islam, Esq.
REGISTRATION NUMBER: 32,507
REFERENCE/DOCKET NUMBER: 2695/FLK

```

TELECOMMUNICATION INFORMATION:

```

TELEPHONE: (212) 940-8564
TELEFAX: (212) 940-8776
INFORMATION FOR SEQ ID NO: 96
SEQUENCE CHARACTERISTICS:
LENGTH: 9472 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA

```

OTHER INFORMATION: KHCV-LBCL, Fig. 2

```

SEQUENCE DESCRIPTION: SEQ ID NO: 96
US-08-150-204B-96

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Query Match          62.9%; Score 522.4; DB 3; Length 9472;
Best Local Similarity 75.5%; Pred. No. 7.9e-147;
Matches 724; Conservative 0; Mismatches 107; Indels 128; Gaps 1;

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Oy 1 CGTAGACCGTGCACATGAGCAGCAATCTAAACCTCAAGAAAAACCAAGCTAACATC 60

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Db      328  CGTAGACCGTGACCAATGACGAAATCTAAACCTCAAAAACCAAAAGCTAACACC 387
Qy      61  AACCGCGCCACAGAGCGTCAAGTTCGCGGCGGTGGCCAGATCGTGGGAGTTTAC 120
Db      388  AACCGCGCCACAGAGTAAATTCCTCGGCGGTGGCCAGATCGTGGGAGTTTAC 447
Qy      121  CTGTTCGCGGCGAGAGGCGCTAGATGGGTGGCGCGAGCTAGAAAGACTTCCGAGCGG 180
Db      448  TTGTTCGCGGCGAGAGGCGCTAGATGGGTGGCGCGAGCTAGAAAGACTTCCGAGCGG 507
Qy      181  TCGCAACCTGTGGAGGCGAGAGCTATCCCAAGCTGGCGAGTCCAGAGGCGAGGTCC 240
Db      508  TCGCAACCTGTGGAGGCGAGAGCTATCCCAAGCTGGCGAGTCCAGAGGCGAGGTCC 567
Qy      241  TGGGCTAGCGCGGCTAGCTTGGCGCTCTATAGGCAATAGAGGCAATAGGCTAGGCGAGG 300
Db      568  TGGGCTAGCGCGGCTAGCTTGGCGCTCTATAGGCAATAGAGGCTAGGCGAGG 627
Qy      301  TGGGCTAGCGCGGCTAGCTTGGCGCTCTATAGGCAATAGAGGCTAGGCGAGG 360
Db      628  TGGGCTAGCGCGGCTAGCTTGGCGCTCTATAGGCAATAGAGGCTAGGCGAGG 687
Qy      361  TCGGTAATTTGGGTAAGGTATGATACCTCTCATGCGGCTTTCGCGAGCTCATGAGG 420
Db      688  TCGGTAATTTGGGTAAGGTATGATACCTCTCATGCGGCTTTCGCGAGCTCATGAGG 747
Qy      421  TACATTCGCGCTCGTGGCGCGCGCTTGGCGGCGGCTTGGCGGCGGCGGCTG----- 468
Db      748  TACATTCGCGCTCGTGGCGCGCGCTTGGCGGCGGCTTGGCGGCGGCGGCTG----- 468
Qy      469  ----- 468
Db      808  CGGCTCGTGAGAGAGCGCGGTGAATATGCAACAGAGGATCTGCCGCTTCTTCTCT 867
Qy      469  -----GCGC 472
Db      868  ATCTTCCTTGGCTCTGCTGCTTCTTGTGACCAACCCAGTTTCCGCTTATGAAGTGCCT 927
Qy      473  AAGGCTTCGCGGATCTTCAACAGTACCAAGATTTTCCAAATGGAGACATTTGTATANG 532
Db      928  AACCGCGCGGAGTACCAATGTCAGAACAGATGCTCAACCTCAACCTATTTGTATANG 987
Qy      533  GCGGAAAGCATGATGATCTTCCCGGCGGCTGCGCTGCTGCGGAGGTAATATC 592
Db      988  GCGGAAAGCATGATGATCTTCCCGGCGGCTGCGCTGCTGCGGAGGTAATATC 1047
Qy      593  TCTGTTGCTGGGATCGGTTTTTCCCGAGCGCTGCGAGCCAGAAATGTAGGTCCTCACT 652
Db      1048  TCCGTTGCTGGGATCGGTTTTTCCCGAGCGCTGCGAGCCAGAAATGTAGGTCCTCACT 1107
Qy      653  CAGGCAATTTGGGAGAGAGTGTGATTTGGGAGGCGAGCACTGTGTTCTGTATG 712
Db      1108  ACGCAATTTGGGAGAGAGTGTGATTTGGGAGGCGAGCACTGTGTTCTGTATG 1167
Qy      713  TATTTGGGAGAGCTGTGAGGCTCGTCTCTGTCGCGCAACTGTTCACTTACACAC 772
Db      1168  TACGTGGGAGAGCTGTGAGGCTCGTCTCTGTTTCCAGAGCTTGTCACTTTTCCCT 1227
Qy      773  CGCGAGNACTACAGATGACAGATCTGCAATTTTTCATTTACCTCCGCGCATATACGG 831
Db      1228  CGCGAGNACTACAGATGACAGATCTGCAATTTTTCATTTACCTCCGCGCATATACGG 1286

```

RESULT 11

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US-08-470-426B-17
; Sequence 17, Application US/08470426B
; Patent No. 5856458
; GENERAL INFORMATION:
; APPLICANT: Okamoto, Hiroaki
; APPLICANT: Nakamura, Tetsuo
; TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
; TITLE OF INVENTION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
; TITLE OF INVENTION: HEPATITIS VIRUS

```

```

; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young,
; ADDRESSER: L.L.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1539 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; US-08-470-426B-17

```

Query Match 62.8%; Score 521.8; DB 2; Length 1539;

Best Local Similarity 76.1%; Pred. No. 5.1e-147; Matches 718; Conservative 0; Mismatches 98; Indels 128; Gaps 1;

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Qy      16  ATGAGCAGCAATCTTAACTCAAGAAAAACCAAGTAATCAACCGCCGACAG 75
Db      1  ATGAGCAGCAATCTTAACTCAAGAAAAACCAAGTAATCAACCGCCGACAG 60
Qy      76  GAGTCAAGTTCGCGGCGGTGCGAGATGTCGTTGAGTTTACTGTTCCGCGCAGG 135
Db      61  GAGTCAAGTTCGCGGCGGTGCGAGATGTCGTTGAGTTTACTGTTCCGCGCAGG 120
Qy      136  GGCCTTGAATTTGGGATGGGCGCGGACCTAGGAAAGCTTCCGAGGCGTCCGAACTCGTGG 195
Db      121  GGCCTTGAATTTGGGATGGGCGCGGACCTAGGAAAGCTTCCGAGGCGTCCGAACTCGTGA 180
Qy      196  AGCGCAGCAGCTTATCCCAAGGCTCCGATCCGAGGAGGAGTCTGAGGCTCAGCCGAG 255
Db      181  TGGCGAACAATATCCCAAGGCTCCGATCCGAGGAGGAGGAGGCTGAGGCTCAGCCGAG 240
Qy      256  TACCTTGGGCGCTTATGAGCAATGAGGCGATGGTTGGCAGGCTGCTGTCCTCC 315
Db      241  TACCTTGGGCGCTTATGAGCAATGAGGCGATGGTTGGCAGGCTGCTGTCCTCC 300
Qy      316  CATGGCTCCCGGCTATGTTGGGCGCTTCAAGACCCCGGAGTGGGTGAGTTATTTGGGT 375
Db      301  CGCGGCTCCCGGCTATGTTGGGCGCTTCAAGACCCCGGAGTGGGTGAGTTATTTGGGT 360
Qy      376  AAGGTATGATATCCCTCATATGAGGCTTTCGCGAGCTCATAGGAGTATATTCGCTGTC 435
Db      361  AAGGTATGATATCCCTCATATGAGGCTTTCGCGAGCTCATAGGAGTATATTCGCTGTC 420
Qy      436  GGGCGCCCTTATGAGGCGGCTTGGCAGGCGCTG----- 468
Db      421  GGGCGCCCTTATGAGGCGGCTTGGCAGGCGCTTGGCAGGCGCTTGGCAGGCGCTTGGAGAC 480

```

QY 469 ----- 468
Db 481 GGCCTGAATATGCAACAGGAACTTGCCCGGTGCTCTTCTATCTCTCTGCT 540
QY 469 ----- GCGCAAGCTTCCGGATC 487
Db 541 TTGCTGTCCTGTTGACCATCCAGCTTCCGCTTATGAAAGCGCAAGTGTCCGGATA 600
QY 488 TACCAACGACCAAGATGTTTCCATGGAGCAATGATGATGAGCGGAGGACATATC 547
Db 601 TACCATGTCAGCAAGATGCTCAACTCAAGCATTTGATGAGGACGCGACATATC 660
QY 548 ATGATCTCCCCGGGGCGTCCCTGCGCTTGGAGGAATATCTCTGTTGCTGGTA 607
Db 661 ATGATATCTCCCGGTGCTGCTCCGCTTGGAGGACCAAGTCTCCGTTGCTGGTA 720
QY 608 CCGTTTCCCGCAGCTCGACGACGAGATGCTAGCGTCCCACTCAGGCAATTCGCGGA 667
Db 721 GCGCTCACTCCAGCTCGCGGCGAGAAATGCCAGGGTCCCACTACGACAAATACGAGC 780
QY 668 CAGCTCACTGCTGTTGGGGCGGCGCACTGTTGCTATGATGTTGGGGAATC 727
Db 781 CACGTCACTGCTGTTGGGGCGGCTGCTTCTGCTCGCTATGATGTTGGGATCTC 840
QY 728 TGTGGGTCCTGCTCTGCTCGGCAACTGTTCACTTCAACACCGCGCAAGTACACA 787
Db 841 TGCAGATCTGTTTCTGCTGCTCCAGCTGTTCACTTCTGCGCTCGCGGATGAGACA 900
QY 788 GTGCAAGACTGCATTTGTTCAATCTACCCGCGCATATTAACGGG 831
Db 901 GTGCAAGACTGCATCTGCTCAATCTATCCGCGCATATTAACGG 944

RESULT 12
US-09-539-601-1
Sequence 1, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Bareneschlager, Ralf FW
TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C
EARLIER FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
EARLIER FILING DATE: 1999-04-03
NUMBER OF SEQ ID NOS: 51
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1)..(341)
OTHER INFORMATION: construct 1389/Core-3'/wt
FEATURE:
NAME/KEY: CDS
LOCATION: (342)..(1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202)..(1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813)..(10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; parental sequence
FEATURE:
NAME/KEY: 3'UTR

LOCATION: (10846)..(11076)
US-09-539-601-1

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1,5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

QY 13 ACCATGAGCAGATCCTTAACCTCAAAAGAAACCAAGTAACATCAACCGCCCA 72
Db 1810 ACCATGGGACGAACTCTTAACCTCAAAAGAAACCAAGTAACACCAACCGCCCA 1869
QY 73 CAGACGTCAAGTTCCCGGGCGGTGCGCAGATCGTGGTGAATTAATCTGTTCCGCGC 132
Db 1870 CAGAGCTCAAGTTCCCGGGCGGTGCGCAGATCGTGGTGAATTAATCTGTTCCGCGC 1929
QY 133 AGGGGCTTAATGATGGGTGTGCGCGACCTAAGAAACTTCCGAGCGGTGCAACCTCGT 192
Db 1930 AGGGGCTTAATGATGGGTGTGCGCGACCTAAGAAACTTCCGAGCGGTGCAACCTCGT 1989
QY 193 GGGAGGCGACAGCTATCCCAAGGCTCGCGATCCGAGGCGAGGTCTGGGCTCAGCCC 252
Db 1990 GGAAGGCGACAGCTATCCCAAGGCTCGCGATCCGAGGCGAGGTCTGGGCTCAGCCC 2049
QY 253 GGGTACCTTTGGCCCTCTATGCGAATGAGGAGATGGGTTGGCAGGGTGGCTCTGCTC 312
Db 2050 GGGTACCTTTGGCCCTCTATGCGAATGAGGAGATGGGTTGGCAGGGTGGCTCTGCTC 2109
QY 313 CCCCATGGCTCCCGGCTATTTGGGGCCCTTACAGACCCCGGGGTAGGTGCGTAATTG 372
Db 2110 CCCCATGGCTCCCGGCTATTTGGGGCCCTTACAGACCCCGGGGTAGGTGCGTAATTG 2169
QY 373 GGTAAAGTCAATCAATCCCTCAATGCGGCTTGCGCGAATGAGGATTAATTCGCTC 432
Db 2170 GGTAAAGTCAATCAATCCCTCAATGCGGCTTGCGCGAATGAGGATTAATTCGCTC 2229
QY 433 GTGCGGCCCTCCCTTAAGGGGCGGTTGCGAGGGCCCTTGCGGAGCTTCCGGATC----- 487
Db 2230 GTGCGGCCCTCCCTTAAGGGGCGGCTTGCGAGGGCCCTTGCGGAGCTTCCGGATC----- 2289
QY 488 ----- 487
Db 2290 GACGGCGTGAATATGCAACAGGAAATCTGCCGGTTGCTCTTCTATCTCTTTTG 2349
QY 488 ----- 487
Db 2350 GCTTGGCTGCTGTTGACCAATCCAGCTTCCGCTTATGAAAGTGGCAAGTATCCGGA 2409
QY 488 ---TACCAAGTCAACCAAGATTTGTTCAATGGAGCAATTGATGAGCGGAAAGCATG 544
Db 2410 GTTACCATGTCAGCAAGCACTGCTCAACGCAAGCAATTGATGAGCGGAGCATATG 2469
QY 545 ATCATGCAATCCCGGGGTGCGGCTGCTGCGGTAAGTAAATCTCTCGTGGTGG 604
Db 2470 ATCATGCAATCCCGGGGTGCGGCTGCTGCGGTAAGTAAATCTCTCGTGGTGG 2529
QY 605 GTACCGTTTCCCGCAGCTCGACGACGAGAAATGCTAGCTCCCACTCAGGCAATTCG 664
Db 2530 GTACCGTTTCCCGCAGCTCGACGACGAGAAATGCTAGCTCCCACTCAGGCAATTCG 2589
QY 665 CGACAGTGCATTTGTTGGGGCGGCAACTCTGTTCTGCTATGATGTTGGGAGAC 724
Db 2590 CGCATGTCATTTGCTGTTGGGGCGGCTGCTCTGCTCCGCTATGATGTTGGGAGAT 2649
QY 725 CTCTGGGTCCGCTTCTGCTGCGGCACTGTTCACTTCAACACCGCGCAAGTAC 784
Db 2650 CTCTGGGTCCGCTTCTGCTGCGGCACTGTTCACTTCAACACCGCGCAAGTAC 2709
QY 785 ACAATGCAAGCTGCATTTGTTCACTTCACTCAGCGCATATTAACGGG 831
Db 2710 ACAATGCAAGCTGCATTTGTTCACTTCACTCAGCGCATATTAACGGG 8756

RESULT 13

```

US-09-539-601-19
; Sequence 19, Application US/09539601C
; Patent No. 6630343
; GENERAL INFORMATION:
; APPLICANT: Barmeschlager, Ralf FW
; TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
; FILE REFERENCE: all sequences
; CURRENT APPLICATION NUMBER: US/09/539,601C
; EARLIER FILING DATE: 2001-08-30
; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 11076
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; OTHER INFORMATION: construct 1389/Core-3'/9-13F
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (342)..(1193)
; OTHER INFORMATION: hepatitis C virus core - neomycin
; OTHER INFORMATION: phosphotransferase fusion protein
; FEATURE:
; NAME/KEY: RBS
; LOCATION: (1202)..(1812)
; OTHER INFORMATION: internal ribosome entry site from
; OTHER INFORMATION: encephalomyocarditis virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1813)..(10845)
; OTHER INFORMATION: hepatitis C virus polyprotein from core to
; OTHER INFORMATION: nonstructural protein NS5B; carries cell
; OTHER INFORMATION: culture-adaptive mutations from clone 9-13F
; FEATURE:
; NAME/KEY: 3'UTR
; LOCATION: (10846)..(11076)
; US-09-539-601-19

Query Match      62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

QY 13 ACCATGAGCAGCAATCTTAACTTCAAGAAACCAAAAGTAACATCAACCGCCGCCA 72
DB 1810 ACCATGGGCGAGAACTCTTAACTTCAAGAAACCAAAAGTAACATCAACCGCCGCCA 1869
QY 73 CAGAGCGTCAGTCCCGGGGGGTGGCGAATCGTCCGTGGAGTTTACCTTCCCGCC 132
DB 1870 CAGAGCGTCAGTCCCGGGGGGTGGCGAATCGTCCGTGGAGTTTACCTTCCCGCC 1929
QY 133 AGGGGCGCTAGATTGGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCCCAACTCGT 192
DB 1930 AGGGGCGCTAGATTGGGTGTGCGCGCACTAGAAAGACTTCCAGCGGTCCCAACTCGT 1989
QY 193 GGAAGGCGACAGCCTATCCCAAGGCTCGCGATCCGAGGGCAGAGTCTTGGGCTCAAGCC 252
DB 1990 GGAAGGCGACAGCCTATCCCAAGGCTCGCGATCCGAGGGCAGAGTCTTGGGCTCAAGCC 2049
QY 253 GGGTACCTTGGCCCCCTTATAGGCAATGAGGGCATGGTTGGGCAAGGTTGGCTCTCTGTCC 312
DB 2050 GGGTACCTTGGCCCCCTTATAGGCAATGAGGGCATGGTTGGGCAAGGTTGGCTCTCTGTCCA 2109
QY 313 CCCCATGGCTCCCGGCTAGTTGGGGCCCTTCAGACCCCGGCGTAGGGTCCGTAATTG 372
DB 2110 CCCCATGGCTCCCGGCTAGTTGGGGCCCGCAAGACCCCGGCGTAAGTCCGCAATTG 2169
QY 373 GGTAAAGTCATGATACCTTCAATGCGGGCTTCCCGCACTCATAGGGGTATCATTTCCGCTC 432
DB 2170 GGTAAAGTCATGATACCTTCAATGCGGGCTTCCCGCACTCATAGGGGTATCATTTCCGCTC 2229

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QY 433 GTCCGCGCCCCCTAGAGGGGCGTTGCCAGAGGCGCTGGCGCAAGGCTTCCGGGATC----- 487
DB 2230 GTCCGCGCCCCCTAGAGGGGCGCTGGCGAGGCGCTTGGCGATAGCGTCCGGGTTCTGGAG 2289
QY 488 ----- 487
DB 2290 GAGGCGTGAATATGCAACAGGGAATCTCCCGGTTGCTCTTTCTATCTTCTTTTG 2349
QY 488 ----- 487
DB 2350 GCTTTGCTGCTGTTTGAACATCCAGCTTCCGTTATGAGTGGCAAGTATCCGA 2409
QY 488 ----TACCAGTCACCAAGATTTGTTCCATGAGAGCATTTGATGAGGCGGAAGCATG 544
DB 2410 GTGACATGTTCAGAACAGACTGCTCCACGACGATTTGTATGAGGACGCGACATG 2469
QY 545 ATCATGATCTCCCGGGGCGTGCCTGCGTTCCGGAAGTAAATCTCTGTTGCTGG 604
DB 2470 ATCATGATACCCCGGGGCGTGCCTGCGTTCCGGAAGAACACTCTCCGCTGCTGG 2529
QY 605 GTACCGTTTCCCGCAGGCTCGCAGCAGCAATGCTAGCTTCCCACTCAGGCAATTCCG 664
DB 2530 GTACCGCTCACTCCACGCTCGCGCCAGGACGTAACGCTCCCACTACGACGATACGA 2589
QY 665 CGACAGTCGACTTGTGTTGGGGCGGCGCACTGTTCTGCTATGTAATGTTGGGGAC 724
DB 2590 CGCATGTCAATTTGCTGTTGGGGCGGCTGCTCTGCTCCGTTATGTAATGTTGGGAGAT 2649
QY 725 CTCTGTGGTCCGCTCTCTGTCGCGCACTGTTCACTTCAACAMCCCGCAAGTAC 784
DB 2650 CTCTGTGGATCTGTTTTCCTGTCGCGCACTGTTCACTTCTGCTCCGTTATGTAATGTTGGGAGAT 2709
QY 785 ACAATGCAAGCTGCAATTTGTTCAATCTACCCCGGCAATTAACGG 831
DB 2710 ACAATGCAAGCTGCAATTTGTTCAATCTACCCCGGCAATTAACGG 2756

RESULT 14
US-09-539-601-25
; Sequence 25, Application US/09539601C
; Patent No. 6630343
; GENERAL INFORMATION:
; APPLICANT: Barmeschlager, Ralf FW
; TITLE OF INVENTION: Hepatitis C Virus Cell Culture System
; FILE REFERENCE: all sequences
; CURRENT APPLICATION NUMBER: US/09/539,601C
; EARLIER FILING DATE: 2001-08-30
; EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 11076
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; OTHER INFORMATION: construct 1389/Core-3'/5.1
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (342)..(1193)
; OTHER INFORMATION: hepatitis C virus core - neomycin
; OTHER INFORMATION: phosphotransferase fusion protein
; FEATURE:
; NAME/KEY: RBS
; LOCATION: (1202)..(1812)
; OTHER INFORMATION: internal ribosome entry site from
; OTHER INFORMATION: encephalomyocarditis virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1813)..(10845)

```

OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell
OTHER INFORMATION: culture-adaptive mutations of clone 5.1
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846) .. (11076)
US-09-539-601-25

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

13 ACCATGAGCAGAACTCTTAACCTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 72
1810 ACCATGGCAGAACTCTTAACCTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 1869
73 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 132
1870 CAGACGTCAAGTTCCCGGCGGTGGTCAAGATCGTGGTGAATTACCTGTGCGCGC 1929
133 AGGGGCGCTAGATTGGGTGGTGGCGGCGCATGAGAAAGATTCCGAGCGGTGCGA 192
1930 AGGGGCGCTAGATTGGGTGGTGGCGGCGCATGAGAAAGATTCCGAGCGGTGCGA 1989
193 GGGAGCGCAGACCTATCCCAAGGCTGCGCATCCAGAGCAGGTCCTGGGCTCAGCC 252
1990 GGAAGGCGCAACCTATCCCAAGGCTGCGCATCCAGAGGCTGCGGCTGAGGCC 2049
253 GGGTACCTTGGCCCTCTATAGGCAATGAGGCGATGGTTGGCGAGGGTGGCTCTG 312
2050 GGGTACCTTGGCCCTCTATAGGCAATGAGGCGATGGTTGGCGAGGGTGGCTCTG 2109
313 CCCCAGGCTCCCGGCGCTAGTTGGGGCCCTTCAGACCCCGGCGGATGGTTCGTA 372
2110 CCCCAGGCTCCCGGCGCTAGTTGGGGCCCTTCAGACCCCGGCGGATGGTTCGTA 2169
373 GGTAAAGTCATGATACCTTCAATGCGGCTTCCGCACTCATGGGGTACATTCGCTC 432
2170 GGTAAAGTCATGATACCTTCAATGCGGCTTCCGCACTCATGGGGTACATTCGCTC 2229
433 GTGGGCGCCCGCTTATAGGGGGCGTTGGCCAGGGCCCTGGCGCAAGGTTCCGGG 487
2230 GTGGGCGCCCGCTTATAGGGGGCGTTGGCCAGGGCCCTGGCGCAAGGTTCCGGG 2289
488 ----- 487
2290 GACGGCGTGAACATATGACAAGGAATCTGCCCGGTTGCTCTTTTCTATCTTCT 2349
488 ----- 487
2350 GCTTGGCTGTCCTGTTTGAACATCCAGCTTCCGCTTATGAAGTGCAGCATCCGGA 2409
488 ---TACACGTCAACAAAGATTGTTCCAAATGAGAGATTGTGTATGAGGCGGAAG 544
2410 GTGAACCAATGTCAGAAAGACGTCCTCAACCAACATTTGTATGAGGCGGACATG 2469
545 ATCATGCACTCTCCCGGGGCGTGGCCCTGCGTTCCGGAAGGTAAATATCTCTGTTG 604
2470 ATCATGCACTCTCCCGGGGCGTGGCCCTGCGTTCCGGAAGGTAAATATCTCTGTTG 2529
605 GTACGCTTTTCCCGGCGCTGCGACAGAGATGCTAGCGTCCCACTCAGGCAATTCG 664
2510 GTACGCTTTTCCCGGCGCTGCGGCGGCGAGAACTGACGTTCCCACTACAGCATAGA 2589
665 CGACAGCTGCACTTGTGTTGGGGCGGCGACACTCTGTTCTGCTATGTATGTGGGAG 724
2590 CGCAGTGTGCAATTTGCTGTTGGGGCGGCGTGTCTCTGCTCGCATATGATGGGAGAT 2649
725 CTCTGTGGTCCGCTTCTCTGTTGGGCGAAGCTTTCACTTCAACWCCGCGCAGNACTAC 784
2650 CTCTGTGGTCCGCTTCTCTGTTGGGCGGCGAAGCTTTCTCTGCTGCGGCGGAGCAG 2709
785 ACAGTGAAGACTGCAATTTGTTCAATCTTACCCCGGCGCATATAACGGG 831

|||||
Db 2710 ACAGTGAAGACTGCAATTTGTTCAATCTTACCCCGGCGCATATAACGGG 2756

RESULT 15
US-09-539-601-31
Sequence 31, Application US/09539601C
Patent No. 6630343
GENERAL INFORMATION:
APPLICANT: Bartenschlager, Ralf FW
TITLE OR INVENTION: Hepatitis C Virus Cell Culture System
FILE REFERENCE: all sequences
CURRENT APPLICATION NUMBER: US/09/539,601C
EARLIER FILING DATE: 2001-08-30
EARLIER APPLICATION NUMBER: 199 15 178.4 GERMANY
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 31
LENGTH: 11076
TYPE: DNA
ORGANISM: Hepatitis C virus
FEATURE:
NAME/KEY: 5'UTR
LOCATION: (1) .. (341)
OTHER INFORMATION: construct I389/Core-3'/19
FEATURE:
NAME/KEY: CDS
LOCATION: (342) .. (1193)
OTHER INFORMATION: hepatitis C virus core - neomycin
OTHER INFORMATION: phosphotransferase fusion protein
FEATURE:
NAME/KEY: RBS
LOCATION: (1202) .. (1812)
OTHER INFORMATION: internal ribosome entry site from
OTHER INFORMATION: encephalomyocarditis virus
FEATURE:
NAME/KEY: CDS
LOCATION: (1813) .. (10845)
OTHER INFORMATION: hepatitis C virus polyprotein from core to
OTHER INFORMATION: nonstructural protein NS5B; carries cell culture
OTHER INFORMATION: adaptive mutations from clone no. 19
FEATURE:
NAME/KEY: 3'UTR
LOCATION: (10846) .. (11076)
US-09-539-601-31

Query Match 62.8%; Score 521.6; DB 3; Length 11076;
Best Local Similarity 75.9%; Pred. No. 1.5e-146;
Matches 719; Conservative 0; Mismatches 100; Indels 128; Gaps 1;

13 ACCATGAGCAGAACTCTTAACCTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 72
1810 ACCATGGCAGAACTCTTAACCTCAAGAAAAACCAACGTAAATCAACCGCCGCCA 1869
73 CAGACGTCAAGTTCCCGGCGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 132
1870 CAGACGTCAAGTTCCCGGCGGTGGTGGCCAGATCGTGGTGAATTACCTGTGCGCGC 1929
133 AGGGGCGCTAGATTGGGTGGTGGCGGCGCATAGAAAGCTTCCGAGCGGTGCGA 192
1930 AGGGGCGCTAGATTGGGTGGTGGCGGCGCATAGAAAGCTTCCGAGCGGTGCGA 1989
193 GGGAGGCGCAGACCTATCCCAAGGCTGCGCGAATCCGAGGGGCAAGTCTGGGCTCAG 252
1990 GGAAGGCGCAACCTATCCCAAGGCTGCGCAGGCCCAAGGATAGGCTTGGCTCAG 2049
253 GGGTACCTTGGCCCTCTATAGGCAATGAGGCGATGGTTGGCGAGGGTGGCTCTG 312
2050 GGGTACCTTGGCCCTCTATAGGCAATGAGGCGATGGTTGGCGAGGATGGCTCTG 2109
313 CCCCAGGCTCCCGGCGCTAGTTGGGGCCCTTCAGACCCCGGCGGATGGTTCGCTA 372

Db 2110 CCCCGTGGCTCTCCGCTAGTTGGGAGCCCCACGGACCCCGGCGTAGGTCGCGCAATTG 2169
Qy 373 GGTAAAGTCAATGCATACCTTCACATGGGGCTTGGCCGACCTCATGGGGTACATCCGCTC 432
Db 2170 GGTAAAGTCAATGCATACCTTCACATGGGGCTTGGCCGACCTCATGGGGTACATCCGCTC 2229
Qy 433 GTCCGCGCCCCCTAGGGGGGCGTTGCGAGGGCCCTGGCGCAAGGCTTCCGGGATC----- 487
Db 2230 GTCCGCGCCCCCTAGGGGGGCGCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAG 2289
Qy 488 ----- 487
Db 2290 GACGCGTGAATGACACAGGAAATGCCCCGGTTGCTCTTCTATCTTCTTTG 2349
Qy 488 ----- 487
Db 2350 GCTTGTGCTGCTGTTGACCATCCAGCTTCCGCTTATGAAAGTGGCAAGTATCCGA 2409
Qy 488 ---TACCACGTCAACCAAGATTGTTCCATGGAGCATTTGTATGAGGCGGAAGCATG 544
Db 2410 GTATACATGTCAAGAACGACTGCTCCAGCGAAGCATTTGTATGAGGCGAGGACATG 2469
Qy 545 ATCATGATCTCCCGGGTGGTCCCTGCGTTGGGAAGGTAAATCTCTGTTGCTG 604
Db 2470 ATCATGATACCCCGGGTGGTCCCTGCGTTGGGAAGAACATCTCTCCGCTGCTG 2529
Qy 605 GTACCGTTTCCCCAGCTTGGCAGCCAGGAATGTAGCGTCCCACTCAGGCAATTGG 664
Db 2530 GTACCGCTCACTCCAGCGTGGCGGCAAGAACGTAGCGTCCCACTCAGGCAATGCA 2589
Qy 665 CGACAGTGCATTTGTTGTTGGGGGCGCCACACTGTGTTCTGCTATGTAATGTGGGAG 724
Db 2590 CGCATGTCAATTTGCTGTTGGGGGCGGCTGCTCTGCTCCGCTATGTAGGTGGAGAT 2649
Qy 725 CTCTGTGGGTCCGTTCTCTGTGGCCCAACTGTTCACCTTCACAMCCCGCAGNACTAC 784
Db 2650 CTCTGCGGATCTGTTTCTCTGTGGCCCAAGCTTTCACCTTCTGCTCGCGGCGACGAG 2709
Qy 785 ACAGTGCAAGACTGCATTTGTTCACTACCCCGGCGCATATAAGGG 831
Db 2710 ACAGTGCAAGACTGCATTTGTTCAATATATCCGCGCAAGTACAGG 2756

Search completed: January 11, 2006, 10:56:41
Job time : 209.227 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-67
Perfect score: 340
Sequence: 1 nnnnnngtcactgagagtg.....atgcctcaagcctnnnnnn 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/prodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/prodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/prodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/prodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/prodata/1/ina/PCTUS COMB.seq:*
- 7: /cgn2_6/prodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/prodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/prodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | length | ID | Description |
|------------|-------|-------------|--------|-------------------|-------------------|
| 1 | 325.6 | 95.8 | 340 | US-08-836-075A-67 | Sequence 67, Appl |
| 2 | 261.2 | 76.8 | 340 | US-08-836-075A-53 | Sequence 53, Appl |
| 3 | 258 | 75.9 | 340 | US-08-836-075A-57 | Sequence 57, Appl |
| 4 | 255.2 | 75.1 | 1782 | US-09-597-877-11 | Sequence 11, Appl |
| 5 | 253.6 | 74.6 | 340 | US-08-441-971-7 | Sequence 7, Appl |
| 6 | 253.6 | 74.6 | 340 | US-08-221-653-7 | Sequence 7, Appl |
| 7 | 253.6 | 74.6 | 340 | US-08-442-144A-7 | Sequence 7, Appl |
| 8 | 253.6 | 74.6 | 340 | US-08-441-970-7 | Sequence 7, Appl |
| 9 | 252 | 74.1 | 340 | US-08-441-971-8 | Sequence 8, Appl |
| 10 | 252 | 74.1 | 340 | US-08-221-653-8 | Sequence 8, Appl |
| 11 | 252 | 74.1 | 340 | US-08-442-144A-8 | Sequence 8, Appl |
| 12 | 252 | 74.1 | 340 | US-08-441-970-8 | Sequence 8, Appl |
| 13 | 252 | 74.1 | 9472 | US-08-150-204E-96 | Sequence 96, Appl |
| 14 | 250.4 | 73.6 | 340 | US-08-441-971-11 | Sequence 11, Appl |
| 15 | 250.4 | 73.6 | 340 | US-08-441-971-12 | Sequence 12, Appl |
| 16 | 250.4 | 73.6 | 340 | US-08-221-653-11 | Sequence 11, Appl |
| 17 | 250.4 | 73.6 | 340 | US-08-221-653-12 | Sequence 12, Appl |
| 18 | 250.4 | 73.6 | 340 | US-08-442-144A-11 | Sequence 11, Appl |
| 19 | 250.4 | 73.6 | 340 | US-08-442-144A-12 | Sequence 12, Appl |
| 20 | 250.4 | 73.6 | 340 | US-08-441-970-11 | Sequence 11, Appl |
| 21 | 250.4 | 73.6 | 340 | US-08-441-970-12 | Sequence 12, Appl |
| 22 | 250.4 | 73.6 | 1770 | US-08-191-160-3 | Sequence 3, Appl |
| 23 | 250.4 | 73.6 | 3750 | US-08-191-160-22 | Sequence 22, Appl |
| 24 | 249.6 | 73.4 | 340 | US-08-836-075A-55 | Sequence 55, Appl |

| | | | | | |
|----|-------|------|------|-------------------|-------------------|
| 25 | 247.2 | 72.7 | 340 | US-08-441-971-10 | Sequence 10, Appl |
| 26 | 247.2 | 72.7 | 340 | US-08-221-653-10 | Sequence 10, Appl |
| 27 | 247.2 | 72.7 | 340 | US-08-442-144A-10 | Sequence 10, Appl |
| 28 | 247.2 | 72.7 | 340 | US-08-441-970-10 | Sequence 10, Appl |
| 29 | 245.6 | 72.2 | 1773 | US-09-720-095A-1 | Sequence 1, Appl |
| 30 | 245.6 | 72.2 | 2991 | US-08-324-977-49 | Sequence 49, Appl |
| 31 | 245.6 | 72.2 | 2991 | US-08-384-616-49 | Sequence 49, Appl |
| 32 | 245.6 | 72.2 | 2991 | US-08-904-686A-49 | Sequence 49, Appl |
| 33 | 245.6 | 72.2 | 2991 | US-09-315-850-49 | Sequence 49, Appl |
| 34 | 245.6 | 72.2 | 6189 | US-10-259-275-41 | Sequence 41, Appl |
| 35 | 245.6 | 72.2 | 7863 | US-08-324-977-35 | Sequence 35, Appl |
| 36 | 245.6 | 72.2 | 7863 | US-08-384-616-35 | Sequence 35, Appl |
| 37 | 245.6 | 72.2 | 7863 | US-08-904-686A-35 | Sequence 35, Appl |
| 38 | 245.6 | 72.2 | 7863 | US-09-315-850-35 | Sequence 35, Appl |
| 39 | 245.6 | 72.2 | 7917 | US-08-324-977-31 | Sequence 31, Appl |
| 40 | 245.6 | 72.2 | 7917 | US-08-384-616-31 | Sequence 31, Appl |
| 41 | 245.6 | 72.2 | 7917 | US-08-904-686A-31 | Sequence 31, Appl |
| 42 | 245.6 | 72.2 | 7917 | US-09-315-850-31 | Sequence 31, Appl |
| 43 | 245.6 | 72.2 | 7989 | US-09-539-601-10 | Sequence 10, Appl |
| 44 | 245.6 | 72.2 | 7992 | US-10-005-469-1 | Sequence 1, Appl |
| 45 | 245.6 | 72.2 | 7992 | US-10-005-469-2 | Sequence 2, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-67
Sequence 67, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 67:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-67

Query Match 95.8%; Score 325.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 3.5e-95;
Matches 326; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTACCAATGCTGAGCCGGCCCC 67
DB 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTACCAATGCTGAGCCGGCCCC 67
QY 68 GAGGCTCGGCTAGCCATAAAGTCTGCTGAGCGGCTATATGTCGGGGCCCTCTAC 127
DB 68 GAGGCTCGGCTAGCCATAAAGTCTGCTGAGCGGCTATATGTCGGGGCCCTCTAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGGAGCGGCTGTGCTACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGGAGCGGCTGTGCTACT 187
QY 188 AGCTGCGTAAACACCTCACTGCTGCTGAAAGCCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGTAAACACCTCACTGCTGCTGAAAGCCGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGCGGAATGCACAACTGCTGCTGTGCGGAGCACTGCTGCTATCTGTGAGCTGCG 307
DB 248 CTCGCGGAATGCACAACTGCTGCTGTGCGGAGCACTGCTGCTATCTGTGAGCTGCG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

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RESULT 2

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US-08-836-075A-53
; Sequence 53, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:

```

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

Query Match 76.8%; Score 261.2; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 2.1e-74;
Matches 284; Conservative 2; Mismatches 40; Indels 0; Gaps 0;

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QY 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTACCAATGCTGAGCCGGCCCC 67
DB 8 GTCACTGAGAGTATCCGTGTCGAGGARTCAATTACCAATGCTGAGCCGGCCCC 67
QY 68 GAGGCTCGGCTAGCCATAAAGTCTGCTGAGCGGCTATATGTCGGGGCCCTCTAC 127
DB 68 GAGGCTCGGCTAGCCATAAAGTCTGCTGAGCGGCTATATGTCGGGGCCCTCTAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGGAGCGGCTGTGCTACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGGAGCGGCTGTGCTACT 187
QY 188 AGCTGCGTAAACACCTCACTGCTGCTGAAAGCCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGTAAACACCTCACTGCTGCTGAAAGCCGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGCGGAATGCACAACTGCTGCTGTGCGGAGCACTGCTGCTATCTGTGAGCTGCG 307
DB 248 CTCGCGGAATGCACAACTGCTGCTGTGCGGAGCACTGCTGCTATCTGTGAGCTGCG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

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RESULT 3

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US-08-836-075A-57
; Sequence 57, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBERT
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995

```

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-57

Query Match 75.9%; Score 258; DB 3; Length 340;
 Best Local Similarity 86.5%; Pred. No. 2.3e-73;
 Matches 282; Conservative 2; Mismatches 42; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATTCGCTGTCGAGGARTCAATTATTCAGTGTGACCGGCCCC 67
 DB 8 GTTACTGAGAGACGACATTGCTGTGTCGAGGATCAATCTACAGTGTGACCTTGCCCC 67
 QY 68 GAGGCTCGGCTAGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTACCC 127
 DB 68 GAGGCTCGGCTAGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTACCC 127
 QY 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATGTCGCGGCTGCTGACTACT 187
 DB 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATGTCGCGGCTGCTGACTACT 187
 QY 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGGCTGTGAGCTGCAAG 247
 DB 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGGCTGTGAGCTGCAAG 247
 QY 248 CTCGCGGAATGCAATGCTGCTGTGTGCGGAGCACTGCTGTTATCTGTGAGAGTGC 307
 DB 248 CTCGCGGAATGCAATGCTGCTGTGTGCGGAGCACTGCTGTTATCTGTGAGAGTGC 307
 QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
 DB 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333

RESULT 4

US-09-597-877-11
 Sequence 11, Application US/09597877
 Patent No. 6461845
 GENERAL INFORMATION:
 APPLICANT: Hagedorn, Curt H.
 TITLE OF INVENTION: Recombinant Hepatitis C Virus RNA Replicase
 FILE REFERENCE: 76-95B
 CURRENT APPLICATION NUMBER: US/09/597,877
 PRIOR FILING DATE: 2000-06-20
 PRIOR APPLICATION NUMBER: 60/004,383
 PRIOR FILING DATE: 1995-09-27
 PRIOR APPLICATION NUMBER: 08/722,806
 PRIOR FILING DATE: 1996-09-27
 PRIOR APPLICATION NUMBER: 09/337,028
 PRIOR FILING DATE: 1999-06-25
 NUMBER OF SEQ ID NOS: 23
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 11
 LENGTH: 1782
 TYPE: DNA
 ORGANISM: Hepatitis C virus
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1)..(1779)
 US-09-597-877-11

Query Match 75.1%; Score 255.2; DB 3; Length 1782;
 Best Local Similarity 86.2%; Pred. No. 3.3e-72;

Matches 281; Conservative 1; Mismatches 44; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATTCGCTGTCGAGGARTCAATTATTCAGTGTGACCGGCCCC 67
 DB 8 GTTACTGAGAGACGACATTGCTGTGTCGAGGATCAATCTACAGTGTGACCTTGCCCC 67
 QY 68 GAGGCTCGGCTAGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTACCC 127
 DB 68 GAGGCTCGGCTAGCCATTAAGTCGCTCACTGAGCGGCTATATGTGCGGGCCCTCTACCC 127
 QY 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATGTCGCGGCTGCTGACTACT 187
 DB 128 AACTCAAAAGGACAGAACTGCGGCTATGCGCGGCTATGTCGCGGCTGCTGACTACT 187
 QY 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGGCTGTGAGCTGCAAG 247
 DB 188 AACTGCGGTAACACCTCTCATCTCTGAAAGCGCGGCGGCTGTGAGCTGCAAG 247
 QY 248 CTCGCGGAATGCAATGCTGCTGTGTGCGGAGCACTGCTGTTATCTGTGAGAGTGC 307
 DB 248 CTCGCGGAATGCAATGCTGCTGTGTGCGGAGCACTGCTGTTATCTGTGAGAGTGC 307
 QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
 DB 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333

RESULT 5

US-08-441-971-7
 Sequence 7, Application US/08441971
 Patent No. 6071693
 GENERAL INFORMATION:
 APPLICANT: Tai-Nn Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,971
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janluk, Anthony J.
 REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-441-971-7

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATTCGGTGTGCGAGARTCAATTATTCATGCTGTGACTGGCCCC 67
DB 8 GTCACTGAGAGTATTCGGTGTGCGAGARTCAATTATTCATGCTGTGACTGGCCCC 67
QY 68 GAGGCTCGGCTAAGCCATTAAGTGTGCTCAAGAGCGGCTATATGTGGGGGCCCCCTCACC 127
DB 68 GAGGCTCGGCTAAGCCATTAAGTGTGCTCAAGAGCGGCTATATGTGGGGGCCCCCTCACC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGAGCGGTGTGCTGACTACT 187
DB 128 AACTCAAAAGGAGAACTGCGGCTATTCGCGGCTGCGAGCGGCTGTGCTGAGACT 187
QY 188 AGCTCGGTAAACCTCTCAATGCTAAGGAGCGGCTGTGCTGAGCTGCAAG 247
DB 188 AGCTCGGTAAATCCTCTCAATGCTAAGGAGCGGCTGTGCTGAGCTGCAAG 247
QY 248 CTCCGGGAATGCAATGCTGCTGTGTGGGAGAGACTGCTGTATCTGTGAGAGTGG 307
DB 248 CTCCGAGACTGCAAGAGCTGTGTAAGGAGAGACTGCTGTATCTGTGAAAGCGCG 307
QY 308 GGGGTCAGAGAGAGATGCTGCAAGCCT 333
DB 308 GGGACCAAGAGAGAGCGGCAAGCCT 333

RESULT 6

US-08-221-653-7
Sequence 7, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-221-653-7

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGAGTATTCGGTGTGCGAGARTCAATTATTCATGCTGTGACTGGCCCC 67
DB 8 GTCACTGAGAGTATTCGGTGTGCGAGARTCAATTATTCATGCTGTGACTGGCCCC 67
QY 68 GAGGCTCGGCTAAGCCATTAAGTGTGCTCAAGAGCGGCTATATGTGGGGGCCCCCTCACC 127
DB 68 GAGGCTCGGCTAAGCCATTAAGTGTGCTCAAGAGCGGCTATATGTGGGGGCCCCCTCACC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATTCGCGGCTGCGAGCGGTGTGCTGACTACT 187
DB 128 AACTCAAAAGGAGAACTGCGGCTATTCGCGGCTGCGAGCGGCTGTGCTGAGACT 187
QY 188 AGCTCGGTAAACCTCTCAATGCTAAGGAGCGGCTGTGCTGAGCTGCAAG 247
DB 188 AGCTCGGTAAATCCTCTCAATGCTAAGGAGCGGCTGTGCTGAGCTGCAAG 247
QY 248 CTCCGGGAATGCAATGCTGCTGTGTGGGAGAGACTGCTGTATCTGTGAGAGTGG 307
DB 248 CTCCGAGACTGCAAGAGCTGTGTAAGGAGAGACTGCTGTATCTGTGAAAGCGCG 307
QY 308 GGGGTCAGAGAGAGATGCTGCAAGCCT 333
DB 308 GGGACCAAGAGAGAGCGGCAAGCCT 333

RESULT 7

US-08-442-144A-7
Sequence 7, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo

REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-442-144A-7

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGATCAATTATGCTGACCTGGCCCC 67
DB 8 GTCACTGAGATGAGACACCCGTGTGAGAGATCAATTATGCTGACCTGGCCCC 67
QY 68 GAGGCTCCGCTAGCATTAAGTCGCTCACTAGAGCGGCTATATGTGGGGGGCCCTCTCAC 127
DB 68 GAGGCTCCGCTAGCATTAAGTCGCTCACTAGAGCGGCTATATGTGGGGGGCCCTCTCAC 127
QY 128 AACTCAAAAGACAGAACTGCGCTATATCGCCGCTGCGAGCGGCTGTGCTGACTACT 187
DB 128 AACTCAAAAGACAGAACTGCGCTATATCGCCGCTGCGAGCGGCTGTGCTGACTACT 187
QY 188 AGCTCGGTAACACCTCTCATGCTGTAAGAACCGCGGCTGTGCTGACTGCAAG 247
DB 188 AGCTCGGTAACACCTCTCATGCTGTAAGAACCGCGGCTGTGCTGACTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGCTGTGTGGCGAGCGACTGCTGCTTATCTGTGAGAGTGG 307
DB 248 CTCGGGGAATGACATGCTGCTGTGTGGCGAGCGACTGCTGCTTATCTGTGAGAGTGG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

RESULT 8
US-08-441-970-7
Sequence 7, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5j1
US-08-441-970-7

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 5.9e-72;
Matches 280; Conservative 1; Mismatches 45; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGATCAATTATGCTGACCTGGCCCC 67
DB 8 GTCACTGAGATGAGACACCCGTGTGAGAGATCAATTATGCTGACCTGGCCCC 67
QY 68 GAGGCTCCGCTAGCATTAAGTCGCTCACTAGAGCGGCTATATGTGGGGGGCCCTCTCAC 127
DB 68 GAGGCTCCGCTAGCATTAAGTCGCTCACTAGAGCGGCTATATGTGGGGGGCCCTCTCAC 127
QY 128 AACTCAAAAGACAGAACTGCGCTATATCGCCGCTGCGAGCGGCTGTGCTGACTACT 187
DB 128 AACTCAAAAGACAGAACTGCGCTATATCGCCGCTGCGAGCGGCTGTGCTGACTACT 187
QY 188 AGCTCGGTAACACCTCTCATGCTGTAAGAACCGCGGCTGTGCTGACTGCAAG 247
DB 188 AGCTCGGTAACACCTCTCATGCTGTAAGAACCGCGGCTGTGCTGACTGCAAG 247
QY 248 CTCGGGGAATGACATGCTGCTGTGTGGCGAGCGACTGCTGCTTATCTGTGAGAGTGG 307
DB 248 CTCGGGGAATGACATGCTGCTGTGTGGCGAGCGACTGCTGCTTATCTGTGAGAGTGG 307
QY 308 GGGGTCAGAGAGATGCTGCAAGCCT 333
DB 308 GGGGTCAGAGAGATGCTGCAAGCCT 333

RESULT 9
US-08-441-971-8
Sequence 8, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-442-144A-8

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 1.9e-71;
Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATGCTGAGCTGGCCCC 67
DB 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATGCTGAGCTGGCCCC 67
QY 68 GAGGCTCGGCTAGCATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTGCAC 127
DB 68 GAGGCTCGGCTAGCATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTGCAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGCTGTCAGAGCGGTGCTGACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGCTGTCAGAGCGGTGCTGACT 187
QY 188 AGCTCGGCTATACACCTTCACTGCTGAAAGCGCGCGGCTGTCAGAGCGGTGCTG 247
DB 188 AGCTCGGCTATACACCTTCACTGCTGAAAGCGCGCGGCTGTCAGAGCGGTGCTG 247
QY 248 CTCGGGAAATGACAAATGCTGTCGTGTCGAGCGACCTGTCGTTATCTGAGAGTGG 307
DB 248 CTCGGGAAATGACAAATGCTGTCGTGTCGAGCGACCTGTCGTTATCTGAGAGTGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACCCAGAGAGATGCGCGGAGCCT 333

Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 MAY 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k1
US-08-441-970-8

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 1.9e-71;
Matches 279; Conservative 1; Mismatches 46; Indels 0; Gaps 0;

QY 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATGCTGAGCTGGCCCC 67
DB 8 GTCACTGAGATGATATCCGTGTCAGAGARTCAATTATGCTGAGCTGGCCCC 67
QY 68 GAGGCTCGGCTAGCATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTGCAC 127
DB 68 GAGGCTCGGCTAGCATTAAGTCGCTCACTGAGCGGCTATATGCGGGGGCCCTGCAC 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGCTGTCAGAGCGGTGCTGACT 187
DB 128 AACTCAAAAGACAGAACTGCGGCTATGCGCGGCTGTCAGAGCGGTGCTGACT 187
QY 188 AGCTCGGCTATACACCTTCACTGCTGAAAGCGCGCGGCTGTCAGAGCGGTGCTG 247
DB 188 AGCTCGGCTATACACCTTCACTGCTGAAAGCGCGCGGCTGTCAGAGCGGTGCTG 247
QY 248 CTCGGGAAATGACAAATGCTGTCGTGTCGAGCGACCTGTCGTTATCTGAGAGTGG 307
DB 248 CTCGGGAAATGACAAATGCTGTCGTGTCGAGCGACCTGTCGTTATCTGAGAGTGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACCCAGAGAGATGCGCGGAGCCT 333

QY 68 GAGCTCGGTAAGCCATTAAGTCTGCTAGAGCGGCTATATGTCGGGGCCCTCTCACC 127
DB 68 GAAGCCAGACAGCTTAAGTCTGCTCAGAGCGGCTGTAATCGGGGGTCCCCGACT 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATCGCCGGTGGCGAGCGGTGTGCTGACTACT 187
DB 128 AATTCAAAAGGAGCAAACTGCGGCTATCGCCGGTGGCGCAAGCGGCTGTGAGACT 187
QY 188 AGCTGCGGTAACACCTGCAATGCTTACCTGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTAACACCTGCAATGCTTACCTGAAAGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGAATGACAACTGCTGTGTGTGAGAGCACTGCTGTTATCTGTGAGAGTGG 307
DB 248 CTCGAGACTGACAGATGCTGTGTGTGAGAGCACTGCTGTTATCTGTGAGAGTGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACTCAAGAGAGAGCGGCGAGCCT 333

RESULT 15

US-08-441-971-12
; Sequence 12, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; OPERATING SYSTEM: IBM compatible
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiak, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns59p3
; US-08-441-971-12

Query Match

73.6%; Score 250.4; DB 3; Length 340;

Best Local Similarity 85.3%; Pred. No. 6.4e-71;
Matches 278; Conservative 1; Mismatches 47; Indels 0; Gaps 0;

QY 8 GCTACTGAGAGATATCGGTGAGAGGATTCATTTACCAATGCTGTGACCTGGCCCC 67
DB 8 GTCACCTGAGAGATGATCGGTGAGAGGATTCATTTACCAATGCTGTGACCTGGCCCC 67
QY 68 GAGCTCGGTAAGCCATTAAGTCTGCTAGAGCGGCTATATGTCGGGGCCCTCTCACC 127
DB 68 GAAGCCAGACAGCTTAAGTCTGCTCAGAGCGGCTTACATGCGGGGTCCCCGACT 127
QY 128 AACTCAAAAGACAGAACTGCGGCTATCGCCGGTGGCGAGCGGTGTGCTGACTACT 187
DB 128 AATTCAAAAGGAGCAAACTGCGGCTATCGCCGGTGGCGCAAGCGGCTGTGAGACT 187
QY 188 AGCTGCGGTAACACCTGCAATGCTTACCTGAAAGCGCGGCTGTGAGCTGCAAG 247
DB 188 AGCTGCGGTAACACCTGCAATGCTTACCTGAAAGCGGCTGTGAGCTGCAAG 247
QY 248 CTCGGGAATGACAACTGCTGTGTGTGAGAGCACTGCTGTTATCTGTGAGAGTGG 307
DB 248 CTCGAGACTGACAGATGCTGTGTGTGAGAGCACTGCTGTTATCTGTGAGAGTGG 307
QY 308 GGGGTCCAGAGAGATGCTGCAAGCCT 333
DB 308 GGAACTCAAGAGAGAGCGGCGAGCCT 333

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Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-69

Perfect score: 340
Sequence: 1 ctgcagcagctcacagagagag.....acgaccgagacctgammnn 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA:*

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- 2: /cgn2_6/ptodata/1/lna/5_COMB.seq:*
- 3: /cgn2_6/ptodata/1/lna/6A_COMB.seq:*
- 4: /cgn2_6/ptodata/1/lna/6B_COMB.seq:*
- 5: /cgn2_6/ptodata/1/lna/H_COMB.seq:*
- 6: /cgn2_6/ptodata/1/lna/PCTUS_COMB.seq:*
- 7: /cgn2_6/ptodata/1/lna/PP_COMB.seq:*
- 8: /cgn2_6/ptodata/1/lna/RE_COMB.seq:*
- 9: /cgn2_6/ptodata/1/lna/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|--------------------|-------------------|
| 1 | 334 | 98.2 | 340 | US-08-836-075A-69 | Sequence 69, Appl |
| 2 | 278 | 81.8 | 340 | US-08-836-075A-71 | Sequence 71, Appl |
| 3 | 258.4 | 76.0 | 340 | US-09-878-281A-145 | Sequence 145, App |
| 4 | 257.2 | 75.6 | 340 | US-08-836-075A-73 | Sequence 73, Appl |
| 5 | 254 | 74.7 | 2693 | US-07-925-695-4 | Sequence 4, Appl |
| 6 | 254 | 74.7 | 9589 | US-07-925-695-1 | Sequence 1, Appl |
| 7 | 254 | 74.7 | 9589 | US-07-925-695-2 | Sequence 2, Appl |
| 8 | 250.8 | 73.8 | 340 | US-08-441-971-15 | Sequence 15, Appl |
| 9 | 250.8 | 73.8 | 340 | US-08-221-653-15 | Sequence 15, Appl |
| 10 | 250.8 | 73.8 | 340 | US-08-442-144A-15 | Sequence 15, Appl |
| 11 | 250.8 | 73.8 | 340 | US-08-441-970-15 | Sequence 15, Appl |
| 12 | 250.8 | 73.8 | 340 | US-09-878-281A-215 | Sequence 215, App |
| 13 | 249.2 | 73.3 | 340 | US-08-441-971-16 | Sequence 16, Appl |
| 14 | 249.2 | 73.3 | 340 | US-08-221-653-16 | Sequence 16, Appl |
| 15 | 249.2 | 73.3 | 340 | US-08-442-144A-16 | Sequence 16, Appl |
| 16 | 249.2 | 73.3 | 340 | US-08-441-970-16 | Sequence 16, Appl |
| 17 | 249.2 | 73.3 | 340 | US-08-441-971-13 | Sequence 13, Appl |
| 18 | 249.2 | 73.3 | 340 | US-08-221-653-13 | Sequence 13, Appl |
| 19 | 249.2 | 73.3 | 340 | US-08-442-144A-13 | Sequence 13, Appl |
| 20 | 249.2 | 73.3 | 340 | US-08-441-970-13 | Sequence 13, Appl |
| 21 | 241.2 | 70.9 | 340 | US-08-441-971-17 | Sequence 17, Appl |
| 22 | 241.2 | 70.9 | 340 | US-08-221-653-17 | Sequence 17, Appl |
| 23 | 241.2 | 70.9 | 340 | US-08-442-144A-17 | Sequence 17, Appl |
| 24 | 241.2 | 70.9 | 340 | US-08-441-970-17 | Sequence 17, Appl |

| | | | | | | |
|----|-------|------|------|---|--------------------|-------------------|
| 25 | 237.6 | 69.9 | 9511 | 2 | US-07-925-695-6 | Sequence 6, Appl |
| 26 | 237.6 | 69.9 | 9511 | 2 | US-07-925-695-7 | Sequence 7, Appl |
| 27 | 236.4 | 69.5 | 340 | 3 | US-08-836-075A-79 | Sequence 79, Appl |
| 28 | 234.8 | 69.1 | 340 | 3 | US-08-441-971-14 | Sequence 14, Appl |
| 29 | 234.8 | 69.1 | 340 | 3 | US-08-221-653-14 | Sequence 14, Appl |
| 30 | 234.8 | 69.1 | 340 | 3 | US-08-442-144A-14 | Sequence 14, Appl |
| 31 | 234.8 | 69.1 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 32 | 227.4 | 66.9 | 340 | 3 | US-08-836-075A-77 | Sequence 77, Appl |
| 33 | 214 | 62.9 | 335 | 3 | US-08-836-075A-101 | Sequence 101, App |
| 34 | 213.6 | 62.8 | 340 | 3 | US-08-836-075A-105 | Sequence 105, App |
| 35 | 202.4 | 59.5 | 340 | 3 | US-08-836-075A-99 | Sequence 99, Appl |
| 36 | 167.6 | 49.3 | 340 | 3 | US-08-441-971-5 | Sequence 5, Appl |
| 37 | 167.6 | 49.3 | 340 | 3 | US-08-221-653-5 | Sequence 5, Appl |
| 38 | 167.6 | 49.3 | 340 | 3 | US-08-442-144A-5 | Sequence 5, Appl |
| 39 | 167.6 | 49.3 | 340 | 3 | US-08-441-970-5 | Sequence 5, Appl |
| 40 | 166.8 | 49.1 | 340 | 3 | US-08-836-075A-53 | Sequence 53, Appl |
| 41 | 166 | 48.8 | 340 | 3 | US-09-878-281A-159 | Sequence 159, App |
| 42 | 166 | 48.8 | 9365 | 3 | US-09-827-688-7 | Sequence 7, Appl |
| 43 | 163.6 | 48.1 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 44 | 163.6 | 48.1 | 340 | 3 | US-08-836-075A-57 | Sequence 57, Appl |
| 45 | 162.8 | 47.9 | 340 | 3 | US-08-441-971-2 | Sequence 2, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-69
; Sequence 69, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-69

Query Match 98.2%; Score 334; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.7e-96;
Matches 335; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGGATCATATACAGGCTTGTCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
   |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
   |||
Db 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
QY 181 CACCAACAGTATGGGGATATACCATCAGTGTCTACATCAAGGCCCTTAGCGCTTTAAAGC 240
   |||
Db 181 CACCAACAGTATGGGGATATACCATCAGTGTCTACATCAAGGCCCTTAGCGCTTTAAAGC 240
QY 241 ACCAGGAATATGTGGCCCCCACCACCATCTGTGTGCGCGATGACCTTAGTTGTCATCTCAGA 300
   |||
Db 241 ACCAGGAATATGTGGCCCCCACCACCATCTGTGTGCGCGATGACCTTAGTTGTCATCTCAGA 300
QY 301 GAGTCAGGAGTTCGAGAGAGACGACCGGAACCTGA 335
   |||
Db 301 GAGTCAGGAGTTCGAGAGAGACGACCGGAACCTGA 335
```

RESULT 2

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 81.8%; Score 278; DB 3; Length 340;
Best Local Similarity 89.3%; Pred. No. 1.2e-78;
Matches 299; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGGATCATATACAGGCTTGTCTT 60
   |||
Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGGATCATATACAGGCTTGTCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
   |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
   |||
Db 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
QY 181 CACCAACAGTATGGGGATATACCATCAGTGTCTACATCAAGGCCCTTAGCGCTTTAAAGC 240
   |||
Db 181 CACCAACAGTATGGGGATATACCATCAGTGTCTACATCAAGGCCCTTAGCGCTTTAAAGC 240
QY 241 ACCAGGAATATGTGGCCCCCACCACCATCTGTGTGCGCGATGACCTTAGTTGTCATCTCAGA 300
   |||
Db 241 ACCAGGAATATGTGGCCCCCACCACCATCTGTGTGCGCGATGACCTTAGTTGTCATCTCAGA 300
QY 301 GAGTCAGGAGTTCGAGAGAGACGACCGGAACCTGA 335
   |||
Db 301 GAGTCAGGAGTTCGAGAGAGACGACCGGAACCTGA 335
```

RESULT 3

US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024

GENERAL INFORMATION:

APPLICANT: Imogeneics N.V.

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

TITLE OF INVENTION: and therapy

FILE REFERENCE: 35

CURRENT APPLICATION NUMBER: US/09/878,281A

CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284

SOFTWARE: PatentIn version 3.1

SEQ ID NO 145

LENGTH: 340

TYPE: DNA

ORGANISM: hepatitis C virus

US-09-878-281A-145

Query Match 76.0%; Score 258.4; DB 3; Length 340;
Best Local Similarity 85.9%; Pred. No. 2.1e-72;
Matches 286; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGGATCATATACAGGCTTGTCTT 60
   |||
Db 1 CTCGACAGTCACAGAGAGATATAGNACTGAGGATCATATACAGGCTTGTCTT 60
QY 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
   |||
Db 61 ACCCGAGCAGGCGCAGAACTGCCATACACTCATTTGACTGAGAGACTTACGTAGAGGGCC 120
QY 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
   |||
Db 121 CATGATGAACAGCAAGAGGCAATCTCTCGGATTCAGGCACTTCCCGCGCAGAGGTGCT 180
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61 ACCCGAGCAGGCCAGACTGCCATAC

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1      TYPE: NUCLEIC ACID
2      STRANDEDNESS: single
3      TOPOLOGY: linear
4      US-07-925-695-4
5
6      Query Match          74.7%; Score 254; DB 2; Length 2693;
7      Best Local Similarity 84.8%; Pred. No. 1.2e-70;
8      Matches 284; Conservative 0; Mismatches 51; Indels 0; Gaps 0
9
10     1 CTCGACAGTCACGAGAGAGATATATAGACTGAGAGAGTCATATACACAGCGTTGTCCTT 60

```

```

Db      2334 CTCAACCGTCTAGAGAGAGACATAGAGAGTCCATATATCCGGCTTGTCTT 2393
Qy      61 ACCCGAGAGGCGGCAACTGCGCATACACTATTGCTAGAGAGACTTAAGAGAGGCC 120
Db      2394 GCCCGAGAGAGGCCACACTGCGCATACACTAGAGAGAGACTTACGTGGAGGGGCC 2453
Qy      121 CATGATGAACAGCAAGGGGCAATCTCTGGGATATGAGGAGATTGGCGCGCAGCGGAGTCT 180
Db      2454 CATGTTCAACAGCAAGGGCGAGACTGCGGATACAGGGGTTGCGCGCAGCGGAGTCT 2513
Qy      181 CACCCAGGATGAGGGAATACCATCATCGTGTACATCAAGGCCCTAGCGGCTTGTAAAGC 240
Db      2514 TACCACTGATGAGGGAACACATCATCATGCTATGTGAAGGCTTAAGCGGCTGTAAAGC 2573
Qy      241 AGCAGGAATAGTGGCCCCCAGCATCTGTGTGTGGCGCATGACTTAAGTTGTATCTCGA 300
Db      2574 TGCAAGGATTAATTTGGCGCCACATGCTGGTATGCGCGCATGACTTGTGTATCTCAGA 2633
Qy      301 GAGTCAGGAGATCGAGAGAGAGACCGGAACCTGA 335
Db      2634 GAGCCAGGGAGACCGAGAGAGAGACCGGAACCTGA 2668

```

RESULT 6
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145

```

; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-1

```

Query Match 74.7%; Score 254; DB 2; Length 9589;
Best Local Similarity 69.6%; Pred. No. 2e-70;
Matches 233; Conservative 51; Mismatches 51; Indels 0; Gaps 0;

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Qy      1 CTGACAGTCAACAGAGAGATATTAAGACTAGAGAGTCCATATACAGGCTTGTCTT 60
Db      8341 CUCAACCGUACUCAGAGAGACAUACAGACUCGAGAGAUCCAUUAVUGGCGCUUGUCCU 8400
Qy      61 ACCCGAGAGGCGGCAACTGCGCATACACTATTGCTAGAGAGACTTAAGAGAGGCC 120
Db      8401 GCCCGAGAGAGGCCACACUCGCAACACUCACUCACUCAGAGACUUAUCUGGGAGGCC 8460
Qy      121 CATGATGAACAGCAAGGGGCAATCTCTGCGATACAGGCAATTCGCGCGCAGCGGAGTCT 180
Db      8461 CAUUCUACAGCAAGGGGCCAGACUCGCGGUACAGCGGUUGCGGCCAGCGGAGUGCU 8520
Qy      181 CACCAACGATATGGGGAATACCATCATCGTGTATCATCAAGGCCCTTACCGCTTAAAGC 240
Db      8521 UACCACTUAGCAUGGGGAAACCAUACAUCAUGCUUAGUAAAGCCUUAACGCGCUUAAAGC 8580
Qy      241 AGCAGGAATAGTGGCCCCCAGCATCTGTGTGTGGCGGATGACTTAAGTTGTATCTCGA 300
Db      8581 UGCAAGGAGUAAUUGCGCCACACAUUCUGUUGCGCGCAUACUUGUGUACUUCAGA 8640
Qy      301 GAGTCAGGAGATCGAGAGAGAGACCGGAACCTGA 335
Db      8641 GAGCCAGGGAGACCGAGAGAGAGACCGGAACCTGA 8675

```

RESULT 7
US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145

```

; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs

```

TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 74.7%; Score 254; DB 2; Length 9589;
Best Local Similarity 84.8%; Pred. No. 2e-70;
Matches 284; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAAGAGAGATATAGAGAGTCAATACAGAGCTTGTCTT 60
DB 8341 CTCACCGCTCAGAGAGAGATCAAGAGAGTCAATATCTCGGCTTGTCTT 8400
QY 61 ACCGAG 120
DB 8401 GCCGAG 8460
QY 121 CATGATGAACAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 8461 CATGTTCAACAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8520
QY 181 CACCAACAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 8521 TACCACTAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8580
QY 241 AGCAGAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 8581 TGCAAGAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8640
QY 301 GAGTCAG 335
DB 8641 GAGCAG 8675

RESULT 8

US-08-441-971-15
Sequence 15, Application US/08441971

Patent No. 6071693

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,971

FILING DATE: 16-May-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACAGTCAAGAGAGATATAGAGAGTCAATACAGAGCTTGTCTT 60
DB 1 CTCACAGTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 60
QY 61 ACCGAG 120
DB 61 GCCGAG 120
QY 121 CATGATGAACAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 121 CATGACAAACAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
QY 181 CACCAACAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 CACCAACAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 AGCAGAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 241 CGGAGAGATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
QY 301 GAGTCAG 335
DB 301 GAGTCAG 335

RESULT 9

US-08-221-653-15

Sequence 15, Application US/08221653

Patent No. 6190864

GENERAL INFORMATION:

APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

STREET: 600 Atlantic Avenue

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/221,653

FILING DATE:

APPLICATION NUMBER: US/07/881,528

FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGACAGAGAGATATAGATCTGAGAGTCCATATACAGGCTTGTCTT 60
DB 1 CTCTACAGTCACAGAGAGGAGACATCAGAACGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 ACCGAGAGGCGCAGAACTGCCATACATCTGATGAGAGACTCTAGTAGAGGCGC 120
DB 61 GCTTGAGAGGCGCCGAACTGCTATACCTCACTGACTGAGAGACTGTACGTAGGGGGGCC 120
QY 121 CATGATGAACAGCAAAAGGGCAATCTGCGGATTAACAGCATTTCCGCGCAGCGAGTCT 180
DB 121 CATGACAAACAGCAAAAGGGCAATCTGCGGATTAACAGCATTTCCGCGCAGCGAGTCT 180
QY 181 CACCAACGATATGGGGAATACATCACTGCTAATCAAGGCGCTTGTAAAGC 240
DB 181 CACCAACGATATGGGGAATACATCACTGCTAATCAAGGCGCTTGTAAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCATGCTGTGTGCGCGCATGACTTGTATCTCAGA 300
DB 241 CGCGGGCATTTGTGCTCCCAATGTTGTGTGCGCGCATGCTGTGTATCTCAGA 300
QY 301 GAGTCAGGGAGTTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGGAGTTCGAGAGAGATGAGCGGAACCTGA 335

RESULT 10
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A

FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGACAGAGAGATATAGATCTGAGAGTCCATATACAGGCTTGTCTT 60
DB 1 CTCTACAGTCACAGAGAGGAGACATCAGAACGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 ACCGAGAGGCGCAGAACTGCCATACATCTGATGAGAGACTCTAGTAGAGGCGC 120
DB 61 GCTTGAGAGGCGCCGAACTGCTATACCTCACTGACTGAGAGACTGTACGTAGGGGGGCC 120
QY 121 CATGATGAACAGCAAAAGGGCAATCTGCGGATTAACAGCATTTCCGCGCAGCGAGTCT 180
DB 121 CATGACAAACAGCAAAAGGGCAATCTGCGGATTAACAGCATTTCCGCGCAGCGAGTCT 180
QY 181 CACCAACGATATGGGGAATACATCACTGCTAATCAAGGCGCTTGTAAAGC 240
DB 181 CACCAACGATATGGGGAATACATCACTGCTAATCAAGGCGCTTGTAAAGC 240
QY 241 AGCAGAAATAGTGGCCCCCACCATGCTGTGTGCGCGCATGACTTGTATCTCAGA 300
DB 241 CGCGGGCATTTGTGCTCCCAATGTTGTGTGCGCGCATGCTGTGTATCTCAGA 300
QY 301 GAGTCAGGGAGTTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGGAGTTCGAGAGAGATGAGCGGAACCTGA 335

RESULT 11
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGTCACAGAGAGATATTAAGAACTGAGAGATTCATATACGAGGCTTGTCTT 60
DB 1 CTCTACATCTCACAGAGAGAGATATTAAGAACTGAGAGATTCATATACGAGGCTTGTCTT 60
QY 61 ACCGAGAGAGGCGCAACCTGATCACTGATGAGAGAGCTTGTGAGAGAGGCT 120
DB 61 GCGTGAAGAGGCGCGCAACCTGATCACTGATGAGAGAGCTTGTGAGAGAGGCT 120
QY 121 CATGATGAACAGCAAAAGGCGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGT 180
DB 121 CATGCAAAACAGCAAGGCGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGT 180
QY 181 CACCAACGATATGGGAGATACATCACTGCTACATCAAGGCGCTTGAAGGCT 240
DB 181 CACCAACGATATGGGAGATACATCACTGCTACATCAAGGCGCTTGAAGGCT 240
QY 241 AGCAGAAATATGGGCGCCCGACCATGCTGATGCGGCGATGACCTAGTTGTCATCTCAGA 300
DB 241 GCGGCGCATTTGTTGCTCCACCATATTTGATGCGGCGATGACCTAGTTGTCATCTCAGA 300
QY 301 GAGTCAGGAGAGTCGAG 335
DB 301 GAGTCAGGAGAGTCGAG 335

RESULT 12
US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Imogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340

TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 84.2%; Pred. No. 5.5e-70;
Matches 282; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCGACATGTCACAGAGAGATATTAAGAACTGAGAGATTCATATACGAGGCTTGTCTT 60
DB 1 CTCTACATCTCACAGAGAGAGATATTAAGAACTGAGAGATTCATATACGAGGCTTGTCTT 60
QY 61 ACCGAGAGAGGCGCAACCTGATCACTGATGAGAGAGCTTGTGAGAGAGGCT 120
DB 61 GCGTGAAGAGGCGCGCAACCTGATCACTGATGAGAGAGCTTGTGAGAGAGGCT 120
QY 121 CATGATGAACAGCAAAAGGCGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGT 180
DB 121 CATGATGAACAGCAAAAGGCGCAATCTGCGGATACAGGAGATTGCGCGCAGCGAGTGT 180
QY 181 CACCAACGATATGGGAGATACATCACTGCTACATCAAGGCGCTTGAAGGCT 240
DB 181 CACCAACGATATGGGAGATACATCACTGCTACATCAAGGCGCTTGAAGGCT 240
QY 241 AGCAGAAATATGGGCGCCCGACCATGCTGATGCGGCGATGACCTAGTTGTCATCTCAGA 300
DB 241 GCGGCGCATTTGTTGCTCCACCATATTTGATGCGGCGATGACCTAGTTGTCATCTCAGA 300
QY 301 GAGTCAGGAGAGTCGAG 335
DB 301 GAGTCAGGAGAGTCGAG 335

RESULT 13
US-08-441-971-16
Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

Query Match 73.3%; Score 249.2; DB 3; Length 340;
Best Local Similarity 83.9%; Pred. No. 1.8e-69;
Matches 281; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCTACAGTCACGAGAGGAGACATGAGAACCGAGAGTCCATCTATCTGTCTCTTCACT 60
QY 61 ACCGAGCAGGCGCAGAACTGCGCATACATTCATGAGAGACTCTAGAGAGGCGC 120
DB 61 GCTTGAGAGGCTCGAATGCTCACTCACTCACTGAGAGGCTGTACGTAGGGGCGCC 120
QY 121 CATGATGAACGCAAAAGGCGCAATCTCGCGATACAGGCAATTCGCGCGCAGCGAGTGTCT 180
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QY 241 AGCAGGAATAGTGGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTGTCTATCTCAGA 300
DB 241 CGCGGCGATTTGTGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTGTCTATCTCAGA 300
QY 301 GAGTCAGGAGGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGGTCGAGAGAGATGAGCGAAACCTGA 335

RESULT 14
US-08-221-653-16

; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF INVENTIONS: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-221-653-16

Query Match 73.3%; Score 249.2; DB 3; Length 340;
Best Local Similarity 83.9%; Pred. No. 1.8e-69;
Matches 281; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACAGAGAGATATAGNACTGAGAGTCCATATACCGAGCTGTTCCTT 60
DB 1 CTCTACAGTCACGAGAGGAGACATGAGAACCGAGAGTCCATCTATCTGTCTCTTCACT 60
QY 61 ACCGAGCAGGCGCAGAACTGCGCATACATTCATGAGAGACTCTAGAGAGGCGC 120
DB 61 GCTTGAGAGGCTCGAATGCTCACTCACTCACTGAGAGGCTGTACGTAGGGGCGCC 120
QY 121 CATGATGAACGCAAAAGGCGCAATCTCGCGATACAGGCAATTCGCGCGCAGCGAGTGTCT 180
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QY 181 CACCAACGATATGGGGATATCCATCATCGTCTACATCAAGGCCCTTAGCGGCTTTGTAAGC 240
DB 181 CACCAACGATATGGGGATATCCATCATCGTCTACATCAAGGCCCTTAGCGGCTTTGTAAGC 240
QY 241 AGCAGGAATAGTGGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTGTCTATCTCAGA 300
DB 241 CGCGGCGATTTGTGCCCCCACCACATGCTGTGTGCGCGCATGACCTAGTGTCTATCTCAGA 300
QY 301 GAGTCAGGAGGTCGAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGGTCGAGAGAGATGAGCGAAACCTGA 335

RESULT 15
US-08-442-144A-16

; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdia
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-442-144A-16

Query Match 73.3%; Score 249.2; DB 3; Length 340;
Best Local Similarity 83.9%; Pred. No. 1.8e-69;
Matches 281; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

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DB 1 CTCTACAGTCAAGAGAGGACATCAGAACGAGAGTCCATCTATCTGCTCTGTTCACT 60
OY 61 ACCGAGAGGCGCAAGTCCATCACTCACTTGAAGAGAGTCCATCACTGAGAGGAGG 120
DB 61 GCGTAGGAGGCTCGAAGCTCACTCACTGAGAGGCTGTAAGAGGCTGTAAGGAGGAGG 120
OY 121 CATGATGAACAGCAAGGCAATCCTGCGATATACAGGCAATTGCCGCGCAGCGAGTGT 180
DB 121 CATGCAAAACAGCAAGGCAATCCTGCGGATACAGGCGTTCGCGCGAGCGAGTGT 180
OY 181 CACCACCAATATGCGGAAATACCATCACTGCTATCAAGGCCCTTAGCGGCTTGTAAAC 240
DB 181 CACCACCAATATGCGGAAATACCATCACTGCTATCAAGGCCCTTAGCGGCTTGTAAAC 240
OY 241 AGCAGGATATGCGGCCCAACCATGCTGTGCGGCGATGACCTAGTTGTCATCTCAGA 300
DB 241 CCGGGGCAATGTTGCCCCCACCACATGTGTGTGCGGCGACGACCTAGTGTCTATCTCAGA 300
OY 301 GAGTCAGGAGTCAAGAGAGACGACCGGAACCTGA 335
DB 301 GAGTCAGGAGTCAAGAGAGATGAGCGAAACCTGA 335

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Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

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(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-71

Perfect score: 340

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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|------------|-------|-------------|--------|-------|--------------------|
| 1 | 340 | 100.0 | 340 | 3 | US-08-836-075A-71 |
| 2 | 278 | 81.8 | 340 | 3 | US-08-836-075A-69 |
| 3 | 271.2 | 79.8 | 340 | 3 | US-08-878-281A-145 |
| 4 | 269.6 | 79.3 | 340 | 3 | US-08-836-075A-73 |
| 5 | 264.8 | 77.9 | 340 | 3 | US-08-836-075A-79 |
| 6 | 264.8 | 77.9 | 2693 | 2 | US-07-925-695-4 |
| 7 | 264.8 | 77.9 | 9589 | 2 | US-07-925-695-1 |
| 8 | 264.8 | 77.9 | 9589 | 2 | US-07-925-695-2 |
| 9 | 261.6 | 76.9 | 340 | 3 | US-08-441-971-15 |
| 10 | 261.6 | 76.9 | 340 | 3 | US-08-221-653-15 |
| 11 | 261.6 | 76.9 | 340 | 3 | US-08-442-144A-15 |
| 12 | 261.6 | 76.9 | 340 | 3 | US-08-441-970-15 |
| 13 | 256.4 | 75.4 | 340 | 3 | US-08-441-971-13 |
| 14 | 256.4 | 75.4 | 340 | 3 | US-08-221-653-13 |
| 15 | 256.4 | 75.4 | 340 | 3 | US-08-442-144A-13 |
| 16 | 256.4 | 75.4 | 340 | 3 | US-08-441-970-13 |
| 17 | 254.8 | 74.9 | 340 | 3 | US-08-441-971-16 |
| 18 | 254.8 | 74.9 | 340 | 3 | US-08-221-653-16 |
| 19 | 254.8 | 74.9 | 340 | 3 | US-08-442-144A-16 |
| 20 | 254.8 | 74.9 | 340 | 3 | US-08-441-970-16 |
| 21 | 246.8 | 72.6 | 340 | 3 | US-08-878-281A-215 |
| 22 | 244 | 71.8 | 340 | 3 | US-08-441-971-14 |
| 23 | 244 | 71.8 | 340 | 3 | US-08-221-653-14 |
| 24 | 244 | 71.8 | 340 | 3 | US-08-442-144A-14 |

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|----|-------|------|------|---|--------------------|-------------------|
| 25 | 244 | 71.8 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 26 | 238.4 | 70.1 | 9511 | 2 | US-07-925-695-6 | Sequence 6, Appl1 |
| 27 | 238.4 | 70.1 | 9511 | 2 | US-07-925-695-7 | Sequence 7, Appl1 |
| 28 | 236.8 | 69.6 | 340 | 3 | US-08-836-075A-77 | Sequence 77, Appl |
| 29 | 230.8 | 67.9 | 340 | 3 | US-08-441-971-17 | Sequence 17, Appl |
| 30 | 230.8 | 67.9 | 340 | 3 | US-08-221-653-17 | Sequence 17, Appl |
| 31 | 230.8 | 67.9 | 340 | 3 | US-08-442-144A-17 | Sequence 17, Appl |
| 32 | 230.8 | 67.9 | 340 | 3 | US-08-441-970-17 | Sequence 17, Appl |
| 33 | 228.6 | 67.2 | 340 | 3 | US-08-836-075A-105 | Sequence 105, App |
| 34 | 223 | 65.6 | 335 | 3 | US-08-836-075A-101 | Sequence 101, App |
| 35 | 213.6 | 62.8 | 340 | 3 | US-08-836-075A-99 | Sequence 99, Appl |
| 36 | 162.4 | 47.8 | 340 | 3 | US-08-836-075A-61 | Sequence 61, Appl |
| 37 | 162 | 47.6 | 340 | 3 | US-08-836-075A-57 | Sequence 57, Appl |
| 38 | 160.4 | 47.2 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 39 | 159.2 | 46.8 | 340 | 3 | US-09-878-281A-159 | Sequence 159, App |
| 40 | 157.6 | 46.4 | 1782 | 3 | US-09-597-877-11 | Sequence 11, Appl |
| 41 | 156 | 45.9 | 340 | 3 | US-08-441-971-8 | Sequence 8, Appl1 |
| 42 | 156 | 45.9 | 340 | 3 | US-08-221-653-8 | Sequence 8, Appl1 |
| 43 | 156 | 45.9 | 340 | 3 | US-08-442-144A-8 | Sequence 8, Appl1 |
| 44 | 156 | 45.9 | 340 | 3 | US-08-441-970-8 | Sequence 8, Appl1 |
| 45 | 155.6 | 45.8 | 340 | 3 | US-08-836-075A-97 | Sequence 97, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-71
; Sequence 71, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: BP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS: 004
; INFORMATION FOR SEQ ID NO:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-71

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2,4e-94;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 CTCACCGTCAAGAGAGGATATTAAGACTGAGAGTCCATTAACCTGCGCTGCTCTT 60
Qy 61 ACCGAGAGAGGCGCGGAGTCCATTAACCTGAGAGACTTTAAGTGGAGGGCC 120
    |||
Db 61 ACCGAGAGAGGCGCGGAGTCCATTAACCTGAGAGACTTTAAGTGGAGGGCC 120
Qy 121 CATGATGAACAGCAAGAGGCGAGTCTCGGATACAGGCGTTCCGCGCTAGCGAGTCT 180
    |||
Db 121 CATGATGAACAGCAAGAGGCGAGTCTCGGATACAGGCGTTCCGCGCTAGCGAGTCT 180
Qy 181 CACACCAAGTATGGGGGAAACACATCAGTGTATGTGAAGCCCTCGCAGCTGTAAAGC 240
    |||
Db 181 CACACCAAGTATGGGGGAAACACATCAGTGTATGTGAAGCCCTCGCAGCTGTAAAGC 240
Qy 241 TCGGGGCGATTGTGCCCCCAGATGCTGTGCGCGGATGACCTGTTGTCACTCAGA 300
    |||
Db 241 TCGGGGCGATTGTGCCCCCAGATGCTGTGCGCGGATGACCTGTTGTCACTCAGA 300
Qy 301 GAGTCAGGGGGCTGAGAGAGACGAGCGAAACCTGAGAGTC 340
    |||
Db 301 GAGTCAGGGGGCTGAGAGAGACGAGCGAAACCTGAGAGTC 340

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RESULT 2

US-08-836-075A-69
Sequence 69, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-69

Query Match 81.8%; Score 278; DB 3; Length 340;
Best Local Similarity 89.3%; Pred. No. 2.3e-75;
Matches 299; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

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Qy 1 CTCACCGTCAAGAGAGGATATTAAGACTGAGAGTCCATTAACCTGCGCTGCTCTT 60
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Qy 121 CATGATGAACAGCAAGAGGCGAGTCTCGGATACAGGCGTTCCGCGCTAGCGAGTCT 180
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Db 121 CATGATGAACAGCAAGAGGCGAGTCTCGGATACAGGCGTTCCGCGCTAGCGAGTCT 180
Qy 181 CACACCAAGTATGGGGGAAACACATCAGTGTATGTGAAGCCCTCGCAGCTGTAAAGC 240
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Db 181 CACACCAAGTATGGGGGAAACACATCAGTGTATGTGAAGCCCTCGCAGCTGTAAAGC 240
Qy 241 TCGGGGCGATTGTGCCCCCAGATGCTGTGCGCGGATGACCTGTTGTCACTCAGA 300
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Db 241 TCGGGGCGATTGTGCCCCCAGATGCTGTGCGCGGATGACCTGTTGTCACTCAGA 300
Qy 301 GAGTCAGGGGGCTGAGAGAGACGAGCGAAACCTGAGAGTC 335
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Db 301 GAGTCAGGGGGCTGAGAGAGACGAGCGAAACCTGAGAGTC 335

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RESULT 3

US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024

GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
TITLE OF INVENTION: and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 145
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-145

Query Match 79.8%; Score 271.2; DB 3; Length 340;
Best Local Similarity 87.4%; Pred. No. 2.8e-73;
Matches 297; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

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Db 1 CTCACCGTCAAGAGAGGATATTAAGACTGAGAGTCCATTAACCTGCGCTGCTCTT 60
Qy 61 ACCGAGAGAGGCGCGGAGTCCATTAACCTGAGAGACTTTAAGTGGAGGGCC 120
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Db 61 ACCGAGAGAGGCGCGGAGTCCATTAACCTGAGAGACTTTAAGTGGAGGGCC 120
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|---------------------------|---------|--------------------|-----------|-------------|
| Query Match | 77.9%; | Score 264.8; | DB 3; | Length 340; |
| Best Local Similarity | -86.2%; | Pred. No. 2.6e-71; | | |
| Matches 293; Conservative | 0; | Mismatches 47; | Indels 0; | Gaps 0; |

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QY 241 TCGCGGATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
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QY 301 GAGTCAGGGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 340
Db 301 GAGTCAGGGGAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
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RESULT 6
US-07-925-695-4
; Sequence 4, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2693 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-4
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Query Match 77.9%; Score 264.8; DB 2; Length 2693;
Best Local Similarity 86.2%; Pred. No. 5.3e-71;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCAACGCTCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 60
Db 2334 CTCAACCGTCACTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2393
QY 61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
Db 2394 GCCGAGAGAGGCCACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2453
QY 121 CATGATGAACAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
Db 2454 CATGTTCAACAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2513
QY 181 CACCAACGATATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
Db 2514 TACCACTAGCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2573
QY 241 TCGCGGATGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 2574 TCGAGGGATATGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2633
QY 301 GAGTCAGGGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 340
Db 2634 GAGCCAGGGAGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2673
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RESULT 7
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
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LENGTH: 9589 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-1

Query Match 77.9%; Score 264.8; DB 2; Length 9589;
 Best Local Similarity 70.6%; Pred. No. 8.2e-71;
 Matches 240; Conservative 53; Mismatches 47; Indels 0; Gaps 0;

QY 1 CTCACCGTCAAGAGGAGATATAGAACTGAGAGTCCATATACCTGCTCTCTT 60
 Db 8341 CUCACCGGUCACUAGAGAGCAUCAGAGCAGAGGAGCAGUAAUACGCGUUCU 8400
 QY 61 ACCGAGAGGCGCGGAGCTGCACTATCACTTAAGTGAAGCTTAACTGAGAGGCGC 120
 Db 8401 GCCGAGAGGCGCGGAGCAGACUAGAGCAGAGCAGAGCAGAGCAGAGGCGC 8460
 QY 121 CATGATGAACAGCAAGGAGGAGCTGCGATACAGGCGTTCGCGCTAGCGAGTGT 180
 Db 8461 CAUGUUCACAGCAAGGCGGAGCAGACUAGAGCAGAGGCGGUGGCGCGCGGAGGCGU 8520
 QY 181 CACCAACAGTATGGGAAACACCATACGTTATGTGAAGCCCTCGAGCTTTAAAGC 240
 Db 8521 UACCACTAGAGGAGGAGCAACCAUACAGUAGUAAAGCCUUAAGCGCGCUGUAAAGGC 8580
 QY 241 TGCGGGAGTTGTGCCCCGAGATGCTGTGTGCGGCGATGACCTGTTGTATCTCAGA 300
 Db 8581 UGCGAGGAGUAAUUGCGCCACAGUAGCGGAGUAGCGGAGUAGCGGAGUAGCGGAGU 8640
 QY 301 GAGTCAGGGGCTGAGAGAGAGAGCGAAACCTGAGAGTC 340
 Db 8641 GAGCCAGGGAGCGAGAGAGAGAGCGAAACCTGAGAGCC 8680

RESULT 8
 US-07-925-695-2
 Sequence 2, Application US/07925695
 Patent No. 5428145

GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 APPLICANT: NAKAMURA, Tetsuo
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 TITLE OF INVENTION: DETECTION SYSTEMS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: -WUI 64470
 INFORMATION FOR SRD ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9589 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-2

Query Match 77.9%; Score 264.8; DB 2; Length 9589;
 Best Local Similarity 86.2%; Pred. No. 8.2e-71;
 Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 CTCACCGTCAAGAGGAGATATAGAACTGAGAGTCCATATACCTGCTCTCTT 60
 Db 8341 CTCACCGTCACTAGAGAGACATAGAGACTGAGAGTCCATATATGCGGCTGTCTT 8400
 QY 61 ACCGAGAGGCGCGGAGCTGCACTATCACTTAAGTGAAGCTTAACTGAGAGGCGC 120
 Db 8401 GCCGAGAGGCGCGGAGCAGACUAGAGCAGAGCAGAGCAGAGCAGAGGCGC 8460
 QY 121 CATGATGAACAGCAAGGAGGAGCTGCGATACAGGCGTTCGCGCTAGCGAGTGT 180
 Db 8461 CATGTCACAGCAAGGCGGAGCAGACUAGAGCAGAGGCGGUGGCGCGCGGAGGCGU 8520
 QY 181 CACCAACAGTATGGGAAACACCATACGTTATGTGAAGCCCTCGAGCTTTAAAGC 240
 Db 8521 TACCACTAGAGGAGGAGCAACCAUACAGUAGUAAAGCCUUAAGCGCGCUGUAAAGGC 8580
 QY 241 TGCGGGAGTTGTGCCCCGAGATGCTGTGTGCGGCGATGACCTGTTGTATCTCAGA 300
 Db 8581 TGCGAGGATATTCGCGCCACATGCTGTATGTGAGGAGTGAATGCTTGTATCTCAGA 8640
 QY 301 GAGTCAGGGGCTGAGAGAGAGAGCGAAACCTGAGAGTC 340
 Db 8641 GAGCCAGGGAGCGAGAGAGAGAGCGAAACCTGAGAGCC 8680

RESULT 9
 US-08-441-971-15
 Sequence 15, Application US/08441971
 Patent No. 6071693

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,971
 FILING DATE: 16-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653
 FILING DATE:
 APPLICATION NUMBER: US/07/881,528
 FILING DATE:
 APPLICATION NUMBER: 07/697,326
 FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2,4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCACAGAGGGATATPAAGACTGAGAGTCCATATACCTGCTGCTCCTT 60
Db 1 CTCTACAGTCACAGAGGAGCATCAGAACCGAGAGTCCATCTATCTGCTGCTCCTACT 60
QY 61 ACCGAGCAGGCCCCGAGCTGCATACATTCATTAAGAGACTTTACGTTGAGGAGGCC 120
Db 61 GCCTGAGAGGCCCCGAATGCTATATACCTACTAGTACGAGACTGTAAGGAGGAGGCC 120
QY 121 CATGATGAACAGCAAAAGGAGCTCCTGCGGATACAGGCGTTCGCGCTACGAGAGTCT 180
Db 121 CATGACAAACAGCAAAAGGAGCATCTCGGGATACAGGCGTTCGCGCGAGAGAGTCT 180
QY 181 CACCACGATATGAGGAAACACCATCAGCTGTATGTGAAAGCCCTCGAGCTTTAAAGC 240
Db 181 CACCACGATATGAGGCAACACGCTCAGCTGTACGTGAAAGCAGAGGCGGTGTAAAGC 240
QY 241 TGCGGGCATTTGTCGCCCAAGATGCTGTGTGCGGCGATGACCTGTGTCTCATCTCAGA 300
Db 241 CGCGGGCATTTGTTGCTCCACCATGTTGTGTGTGCGGCGACGACTGTGTGATCTCAGA 300
QY 301 GAGTCAGGGGGCTGAGAGAGCAGACGAAACCTGAGAGTC 340
Db 301 GAGTCAGGGGGCTGAGAGAGATGAGAGGAGCTGAGAGTC 340

RESULT 10

US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2,4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCACAGAGGGATATPAAGACTGAGAGTCCATATACCTGCTGCTCCTT 60
Db 1 CTCTACAGTCACAGAGGAGCATCAGAACCGAGAGTCCATCTATCTGCTGCTCCTACT 60
QY 61 ACCGAGCAGGCCCCGAGCTGCATACATTCATTAAGAGACTTTACGTTGAGGAGGCC 120
Db 61 GCCTGAGAGGCCCCGAATGCTATATACCTACTAGTACGAGACTGTAAGGAGGAGGCC 120
QY 121 CATGATGAACAGCAAAAGGAGCTCCTGCGGATACAGGCGTTCGCGCTACGAGAGTCT 180
Db 121 CATGACAAACAGCAAAAGGAGCATCTCGGGATACAGGCGTTCGCGCGAGCGAGTCT 180
QY 181 CACCACGATATGAGGAAACACCATCAGCTGTATGTGAAAGCCCTCGAGCTTTAAAGC 240
Db 181 CACCACGATATGAGGCAACACGCTCAGCTGTACGTGAAAGCAGAGGCGGTGTAAAGC 240
QY 241 TGCGGGCATTTGTCGCCCAAGATGCTGTGTGCGGCGATGACCTGTGTCTCATCTCAGA 300
Db 241 CGCGGGCATTTGTTGCTCCACCATGTTGTGTGTGCGGCGAGCAGCTGTGTGATCTCAGA 300
QY 301 GAGTCAGGGGGCTGAGAGAGCAGACGAAACCTGAGAGTC 340
Db 301 GAGTCAGGGGGCTGAGAGAGATGAGAGGAGCTGAGAGTC 340

RESULT 11

US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ms5110
US-08-442-144A-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2.4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCAAGAGAGGATATAGAACTGAGAGTCCATATACCTGCTGCTCTT 60
DB 1 CTCAACGTCACAGAGAGGATATAGAACTGAGAGTCCATATACCTGCTGCTCTT 60
QY 61 ACCGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
DB 61 GCTGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY 121 CATGATGAACAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
DB 121 CATGACAAACAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
QY 181 CACCAACAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
DB 181 CACCAACAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY 241 TGGGGGATTTGCTCCCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 CGGGGATTTGCTCCCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 GAGTCAGGGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 301 GAGTCAGGGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

RESULT 12
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ms5110
US-08-441-970-15

Query Match 76.9%; Score 261.6; DB 3; Length 340;
Best Local Similarity 85.6%; Pred. No. 2.4e-70;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCAACCGTCAAGAGAGGATATAGAACTGAGAGTCCATATACCTGCTGCTCTT 60
DB 1 CTCAACGTCACAGAGAGGATATAGAACTGAGAGTCCATATACCTGCTGCTCTT 60
QY 61 ACCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
DB 61 GCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
QY 121 CATGATGAACAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
DB 121 CATGACAAACAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
QY 181 CACCAACAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
DB 181 CACCAACAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
QY 241 TGGGGGATTTGCTCCCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
DB 241 CGGGGATTTGCTCCCAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 301 GAGTCAGGGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 301 GAGTCAGGGGCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

RESULT 13
US-08-441-971-13
Sequence 13, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: .02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2

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: Sequence 13, Application US/08221653
: Patent No. 6190864
:
: GENERAL INFORMATION:
: APPLICANT: Tai-An Cha
: TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
: TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
: NUMBER OF SEQUENCES: 147
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
: STREET: 600 Atlantic Avenue
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
: ZIP: 02210
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 5.25 inch
: COMPUTER: IBM compatible
: OPERATING SYSTEM: MS-DOS Version 3.3
: SOFTWARE: WordPerfect 5.1
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/221,653
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/07/881,528
: FILING DATE:
: APPLICATION NUMBER: 07/697,326
: FILING DATE: 8 May 1991
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Janluk, Anthony J.
: REGISTRATION NUMBER: 29,809
: REFERENCE/DOCKET NUMBER: C0772/7000
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 720-3500
: TELEFAX: (617) 720-2441
: TELEX: EZEKIEL
:
: INFORMATION FOR SEQ ID NO: 13:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 340 nucleotides
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA
: ORIGINAL SOURCE:
: INDIVIDUAL ISOLATE: ns5k2
:
: US-08-221-653-13

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RESULT 14
US-08-221-653-13

Db 301 AAGCAGGGA CTGAGGAGGACGAGCGA C CTGAGAG 338

RESULT 15
US-08-442

; Sequence 13, Application US/08442144A
; Patent No. 6214583

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?      APPLICANT:   Tai-An Cha
?      APPLICANT:   Aileen Beall
?      APPLICANT:   Bruce Irvine
?      APPLICANT:   Janice Kolberg
?      APPLICANT:   Michael S. Urdea
?      TITLE OF INVENTION:  HCV GENOMIC SEQUENCES FOR
?      TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
?      NUMBER OF SEQUENCES:    148

```

ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA

COMPUTER READABLE FORM: 3.5 Inch
MEDIUM TYPE: Discrete, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439

? INFORMATION FOR SEQ ID NO: 13
 ? SEQUENCE CHARACTERISTICS:
 ? LENGTH: 340 Nucleotides
 ? TYPE: Nucleic Acid
 ? STRANDEDNESS: Single
 ? TOPOLOGY: Linear
 ? MOLECULE TYPE: DNA
 ? ORIGINAL SOURCE:
 ? INDIVIDUAL ISOLATE: m55k2
 ? US-08-442-144A-13

| | | | | |
|-----------------------|--------------|-------------------|---------------|------------|
| Query Match | 75.4% | Score 256.4 | DB 3 | Length 340 |
| Best Local Similarity | 84.9% | Pred. No. 9.6e-69 | | |
| Matches 287 | Conservative | 0 | Mismatches 51 | Indels 0 |
| | | | | Gaps 0 |

| | | |
|----|---|-----|
| QY | CTCAACCGCTCACAAGAGAGGATATTAAGAACTGAGGAGTCCATATATACCTGGCGCTGCTCTT | 60 |
| Db | 1 CTCAACCGCTCATCTGAAGAGAGACATCAAGAACTGAGAGTCCATATATATCCGAGCTCTTCCCT | 60 |
| QY | 61 ACCCGAGCAGGCGCCGGAGCTGCGCATATCATTTCAATTAACCTGAGAGACTTTACGTGGAGGGGdC | 120 |
| Db | 61 GCGTGAGAGAGGCGTCACATTTGCCATTACCTCGCTGACTGAGAGGGCGCTACGTTGGGAGGGGCC | 120 |
| QY | 121 CATGATGAACAGCAAAAGGGGAGTCTCTGGCGATACAGGCGTTGCCGCGCTAAGCGAGTGTCT | 180 |
| Db | 121 CATGTTCAACAGCAGAGGGGCGAGACCTGGCGGGATACAGGGCGTTGCCGCGCGCAACGGGGGTGCT | 180 |
| QY | 181 CACCAACAGATATGGGGGAAACCACTACGTTGTTATATGAAAAGCCCTCCGAGCTTTTAAAGC | 240 |
| Db | 181 CACCACTAGATATGGGGGAAACCACTACATGCTATATGAAAAGCCCTTAGGGGCTTCAAGGCG | 240 |

[illegible]

Search completed: January 11, 2006, 10:56:44
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-73

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1,7e-97;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 CTCAACAGTCCGCGAGAGACATCAGAGACCGAGAGTTCATTACCTTGCTGCTCTT 60
DB 1 CTCAACAGTCCGCGAGAGAGACATCAGAGACCGAGAGTTCATTACCTTGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
QY 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAGCTGCGCGAAGC 240
DB 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAGCTGCGCGAAGC 240
QY 241 TGCAGGATCGTTGCTCCACGATGCTGTTTGTGGCAGCATCTGATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACGATGCTGTTTGTGGCAGCATCTGATCATCTCAGA 300
QY 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
```

RESULT 2

US-08-836-075A-71

Sequence 71, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 79.3%; Score 269.6; DB 3; Length 340;
Best Local Similarity 87.1%; Pred. No. 2.9e-75;
Matches 296; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

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QY 1 CTCAACAGTCCGCGAGAGACATCAGAGACCGAGAGTTCATTACCTTGCTCTT 60
DB 1 CTCAACAGTCCGCGAGAGAGATTAAGACTGAGAGTCCATATACCTTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
QY 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAGCTGCGCGAAGC 240
DB 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAGCTGCGCGAAGC 240
QY 241 TGCAGGATCGTTGCTCCACGATGCTGTTTGTGGCAGCATCTGATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACGATGCTGTTTGTGGCAGCATCTGATCATCTCAGA 300
QY 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
DB 301 GAGTCAGGGAACCGAGAGATGAGCGGAACCTGAGAGTC 340
```

RESULT 3

US-09-878-281A-145

Sequence 145, Application US/09878281A

Patent No. 6762024

GENERAL INFORMATION:

APPLICANT: Immunogenetics N.V.

TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy

TITLE OF INVENTION: and therapy

FILE REFERENCE: 35

CURRENT APPLICATION NUMBER: US/09/878,281A

CURRENT FILING DATE: 2001-06-12

NUMBER OF SEQ ID NOS: 284

SOFTWARE: PatentIn version 3.1

SEQ ID NO 145

LENGTH: 340

TYPE: DNA

ORGANISM: hepatitis C virus

US-09-878-281A-145

Query Match 77.9%; Score 264.8; DB 3; Length 340;
Best Local Similarity 86.2%; Pred. No. 9.5e-74;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

```
QY 1 CTCAACAGTCCGCGAGAGACATCAGAGACCGAGAGTTCATTACCTTGCTCTT 60
DB 1 CTCAACAGTCCGCGAGAGAGATTAAGACTGAGAGTCCATATACCTTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
DB 61 ACCGAGCAAGCCCGAACTGCGCATTCATTGAGAGACTTTACGTAGAGAGGCC 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
DB 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGCTTGCGCGCGAGAGTCT 180
```

| Qy | Dy | Qy | Dy |
|------|--|-----|---|
| 1 | CTCAACAGTCGGAGAGAGACATCAGAGCCGAGAGTCAATTTACTCTTGCAGTCCCTT | 61 | ACCGAGCAAGCCCGAATCGCATTCATTGACTGAGACCTTTACGTAGAGAGGCC |
| 2334 | CTCAACCGTCACTGAGAGAGACATCAGAGCTGAGAGTCAATATACGGGCTTTGTCCTT | 239 | 2394 |
| | | | GCCCGAGAGAGGCCACATCGCATTCATCTGACTGAGAACTTTTACGTGAGAGAGGCC |
| | | | 245 |

[illegible]

Db 8341 CUCAACCGUCACUGAGAGACAUACGAGACUGAGAGUCUAUUAUCGGGCUUUCUU 8400
Qy 61 ACCGAGCAGCGCCGAACCTGCATCATTTGACTGAGAGACTTTACGTAGAGAGGCC 120
Db 8401 GCCCAGAGAGGCCACACUCGCAUACUCACUCGACUCGAGACUUAAGCGGGAGGCC 8460
Qy 121 CATGATGAACAGCAGAGGAGCAGTCTCTGCTTACAGACGTTGCCCGCAGCGAGTCT 180
Db 8461 CAUGUUCACACAGCAGAGGCCACACUCGCGGUAACAGCGGUCUCCCGCAGCGGGUGU 8520
Qy 181 CACCAACGACATGGGGAATACATCATCTATGTAAAGCATTAAGTCTGCTCAAAAGC 240
Db 8521 UACCAUCUGCAUGGGGAAACACCAUACAUGCUAUGGAAAGCCUUAAGCGCCUGUAAGGC 8580
Qy 241 TGCAGGATCGTGTCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
Db 8581 UCCAGAGAAUUGGCGCCACAUUGCGUAGCGCGCAUAGCUGUGUACUCUCAGA 8640
Qy 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTC 340
Db 8641 GAGCCAGGGACCGAGAGAGAGAGAGCGGAACCTGAGAGCC 8680

RESULT 6
US-07-925-695-2
; Sequence 2, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9589 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-925-695-2

Query Match 76.9%; Score 261.6; DB 2; Length 9589;

Best Local Similarity 85.6%; Pred. No. 3,6e-72;
Matches 291; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy 1 CTCAACAGTCCGGAGAGAGACATCAGACCCAGAGATCCATTACTTGCTGCTCTT 60
Db 8341 CTCAACCGTCACTAGAGAGACATCAGAGACTGAGAGTCCATATATGAGGCTTATCTT 8400
Qy 61 ACCGAGCAGCGCCGAACCTGCATCATTTGACTGAGAGACTTTACGTAGAGAGGCC 120
Db 8401 GCCCAGAGAGGCCACACCTGCTCATATCACTGACTGAGAGACTTTACGTAGAGAGGCC 8460
Qy 121 CATGATGAACAGCAGAGGAGCAGTCTCTGCTTACAGACGTTGCCCGCAGCGAGTCT 180
Db 8461 CATGTTCAACAGCAGAGGCCACAGCTGCGGTACAGCGGTTGCCCGCAGCGGAGTCT 8520
Qy 181 CACCAACGACATGGGGAATACATCATCTATGTAAAGCATTAAGTCTGCTCAAAAGC 240
Db 8521 TACCACTAGCATGGGGAACACCATCATCTATGTAAAGCCTTAAGCGGCTGTAAAGC 8580
Qy 241 TGCAGGATCGTGTCTCCACGATGCTGTTGTGGCGACGATCTGTCATCATCTCAGA 300
Db 8581 TGCAGGATTAATTGCGCCCAATGCTGTATGCGGCGATGACTTGTGTCTATCTCAGA 8640
Qy 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTC 340
Db 8641 GAGCCAGGGACCGAGAGAGAGAGAGCGGAACCTGAGAGCC 8680

RESULT 7
US-08-836-075A-69
; Sequence 69, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEBRT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DUKKE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-69

Query Match 75.6%; Score 257.2; DB 3; Length 340;
Best Local Similarity 85.4%; Pred. No. 2.4e-71;
Matches 286; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGAGATCATGAGACCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTCGACATGACAGAGAGATATAGNACTGAGAGTCCATATACAGGCTTGCTCTT 60
QY 61 ACCGAGAGAGCCGAACTGCCATATCATCTGAGAGACTTTAGTAGAGGCGC 120
DB 61 ACCGAGAGAGCCGAACTGCCATATCATCTGAGAGACTTTAGTAGAGGCGC 120
QY 121 CATGATGAACAGCAAGGACAGTCTGCGTTACAGACGTTGCCGCGCAGGAGTGT 180
DB 121 CATGATGAACAGCAAGGACAGTCTGCGTTACAGACGTTGCCGCGCAGGAGTGT 180
QY 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAAGTGTGCTGCAAGC 240
DB 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAAGTGTGCTGCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACAGATGCTGGTTGTGGCGACATGTCATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACAGATGCTGGTTGTGGCGACATGTCATCATCTCAGA 300
QY 301 GAGTCAGGAGAACCGAGAGATGAGCGGAACCTGA 335
DB 301 GAGTCAGGAGAACCGAGAGATGAGCGGAACCTGA 335

RESULT 8

US-08-836-075A-79
Sequence 79, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: STUDYER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29.775
REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 79:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-79

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 3.3e-70;
Matches 286; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGAGATCATGAGACCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTCGACATGACAGAGAGATATAGNACTGAGAGTCCATATACAGGCTTGCTCTT 60
QY 61 ACCGAGAGAGCCGAACTGCCATATCATCTGAGAGACTTTAGTAGAGGCGC 120
DB 61 ACCGAGAGAGCCGAACTGCCATATCATCTGAGAGACTTTAGTAGAGGCGC 120
QY 121 CATGATGAACAGCAAGGACAGTCTGCGTTACAGACGTTGCCGCGCAGGAGTGT 180
DB 121 CATGATGAACAGCAAGGACAGTCTGCGTTACAGACGTTGCCGCGCAGGAGTGT 180
QY 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAAGTGTGCTGCAAGC 240
DB 181 CACCAACAGCATGGGGAATACATCATGCTATGTGAAGGATTAAGTGTGCTGCAAGC 240
QY 241 TGCAGGATCGTTGCTCCACAGATGCTGGTTGTGGCGACATGTCATCATCTCAGA 300
DB 241 TGCAGGATCGTTGCTCCACAGATGCTGGTTGTGGCGACATGTCATCATCTCAGA 300
QY 301 GAGTCAGGAGAACCGAGAGATGAGCGGAACCTGA 340
DB 301 GAGTCAGGAGAACCGAGAGATGAGCGGAACCTGA 340

RESULT 9

US-08-441-971-15
Sequence 15, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.971
FILING DATE: 16-May-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221.653
FILING DATE:
APPLICATION NUMBER: US/07/881.528
FILING DATE:
APPLICATION NUMBER: 07/697.326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.le-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCCTT 60
Db 1 CTCACAGTCCAGAGAGGACATCAGAACCGAGAGTCCATTACCTTGCTGCTCCT 60

QY 61 ACCGAGAGAGCCGACATCCATTCATTGATGAGAGCTTTACGTAGAGAGGCG 120
Db 61 GCTGAGAGAGCCGACATCCATTCATTGATGAGAGCTTTACGTAGAGAGGCG 120

QY 121 CATGATGAACGACAGAGGACATCTCTGCGGTTACAGAGCTTGCCTGCGAGGAGT 180
Db 121 CATGACAAACGACAGAGGACATCTCTGCGGTTACAGAGCTTGCCTGCGAGGAGT 180

QY 181 CACCAACGACATGGGAAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
Db 181 CACCAACGACATGGGAAACACGCTACGCTAAGAGCGAGAGCGGCTGTAAAGC 240

QY 241 TGCAGGATCGTGTCTCCACGATGCTGTTGTGGCGACGATCTGATCATCTCAGA 300
Db 241 CGCGGCAATGTTGCTCCACGATGTTGTGTGGCGACGATCTGATCATCTCAGA 300

QY 301 GAGTCAGGAAACGAGAGATGAGCGGAACCTGAGAGTC 340
Db 301 GAGTCAGGAGGTGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 10
US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.le-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCCTT 60
Db 1 CTCACAGTCCAGAGAGGACATCAGAACCGAGAGTCCATTACCTTGCTGCTCCT 60

QY 61 ACCGAGAGAGCCGACATCCATTCATTGATGAGAGCTTTACGTAGAGAGGCG 120
Db 61 GCTGAGAGAGCCGACATCCATTCATTGATGAGAGCTTTACGTAGAGAGGCG 120

QY 121 CATGATGAACGACAGAGGACATCTCTGCGGTTACAGAGCTTGCCTGCGAGGAGT 180
Db 121 CATGACAAACGACAGAGGACATCTCTGCGGTTACAGAGCTTGCCTGCGAGGAGT 180

QY 181 CACCAACGACATGGGAAATACCATCATCTATGTAAAGCATTAAGTCTGCTCAAGC 240
Db 181 CACCAACGACATGGGAAACACGCTACGCTAAGAGCGAGAGCGGCTGTAAAGC 240

QY 241 TGCAGGATCGTGTCTCCACGATGCTGTTGTGGCGACGATCTGATCATCTCAGA 300
Db 241 CGCGGCAATGTTGCTCCACGATGTTGTGTGGCGACGATCTGATCATCTCAGA 300

QY 301 GAGTCAGGAAACGAGAGATGAGCGGAACCTGAGAGTC 340
Db 301 GAGTCAGGAGGTGAGAGATGAGCGGAACCTGAGAGTC 340

RESULT 11
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1,1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCAACAGTCCGGAGAGAGACATCAGACCGGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTTACAGTCAACAGAGGAGACATCAGAACGAGAGTCCATCTATCTGCTGCTCACT 60
QY 61 ACCGAGAGAGCCGACATGCTCATTCATTGCTGAGAGCTTTACGTGAGAGGAGG 120
DB 61 GCTGAGAGAGCCGACATGCTCATTCATTGCTGAGAGCTTTACGTGAGAGGAGG 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGTTGCCGCGCAGCGAGTGT 180
DB 121 CATGACAAACAGCAAGGAGGACATCTCGCGGTACAGGCGTTGCCGCGGAGGAGTGT 180
QY 181 CACCAACAGCATGGGAAATACCATCAATGCTATGTGAAGGATTAGTGCCTGCAAA 240
DB 181 CACCAACAGCATGGGCAACAACGCTCAGTGTCTAGTAAAGCGAGCGGCGTGTAA 240
QY 241 TGCAGGATCGTGTCTCCCAAGATCTGTTGTGTGGCAACGATCTGTCATCATCTCA 300
DB 241 CGCGGCAATGTGTCTCCCAACATGTGTGTGTGGCGACGACCTGTGTGTATCTCA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTCT 340
DB 301 GAGTCAGGAGGCTCGAGAGATGAGCGGAACCTGAGAGTCT 340

RESULT 12
US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 74.1%; Score 252; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1,1e-69;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCAACAGTCCGGAGAGAGACATCAGACCGGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTTACAGTCAACAGAGGAGACATCAGAACGAGAGTCCATCTATCTGCTGCTCACT 60
QY 61 ACCGAGAGAGCCGACATGCTCATTCATTGCTGAGAGCTTTACGTGAGAGGAGG 120
DB 61 GCTGAGAGAGCCGACATGCTCATTCATTGCTGAGAGCTTTACGTGAGAGGAGG 120
QY 121 CATGATGAACAGCAAGGAGACAGTCTGCGGTTACAGAGTTGCCGCGCAGCGAGTGT 180
DB 121 CATGACAAACAGCAAGGAGGACATCTCGCGGTACAGGCGTTGCCGCGGAGGAGTGT 180
QY 181 CACCAACAGCATGGGAAATACCATCAATGCTATGTGAAGGATTAGTGCCTGCAAA 240
DB 181 CACCAACAGCATGGGCAACAACGCTCAGTGTCTAGTAAAGCGAGCGGCGTGTAA 240
QY 241 TGCAGGATCGTGTCTCCCAAGATCTGTTGTGTGGCAACGATCTGTCATCATCTCA 300
DB 241 CGCGGCAATGTGTCTCCCAACATGTGTGTGTGTGGCGACGACCTGTGTGTATCTCA 300
QY 301 GAGTCAGGAAACCGAGAGATGAGCGGAACCTGAGAGTCT 340
DB 301 GAGTCAGGAGGCTCGAGAGATGAGCGGAACCTGAGAGTCT 340

RESULT 13
US-08-441-971-13
Sequence 13, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
;; STREET: 600 Atlantic Avenue
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02210
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette, 5.25 inch
;; OPERATING SYSTEM: IBM compatible
;; SOFTWARE: WordPerfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/441,971
;; FILING DATE: 16-MAY-1995
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/221,653
;; FILING DATE:
;; APPLICATION NUMBER: US/07/881,528
;; FILING DATE:
;; APPLICATION NUMBER: 07/697,326
;; FILING DATE: 8 May 1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Janiuk, Anthony J.
;; REGISTRATION NUMBER: 29,809
;; REFERENCE/DOCKET NUMBER: C0772/7000
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 720-3500
;; TELEFAX: (617) 720-2441
;; TELEX: EZEKIEL
;; INFORMATION FOR SEQ ID NO: 13:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 340 nucleotides
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: ns5k2
;; US-08-441-971-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.4e-68;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTCACCGTCACTGAGAGAGACATCAGACTGAGAGTCCATTACCGAGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAAGTCCATCATTCATTGACTGAGAGCTTTAAGTAGAGGGCC 120
DB 61 GCTTAGAGAGGCTTCACTTGCATACACTGCTGACTGAGAGGCTTACGTGGAGGGCC 120
QY 121 CATGATGAACAGCAAGGAGCAGTCTGCGGTTACAGACGTTGCCGCGCAGCGAGTGT 180
DB 121 CATGTTCAACAGCAAGGAGCAGACCTGCGGTTACAGAGGCTTACGTGGAGGGCC 180
QY 181 CACCAACAGCATGGGGAAATACATCATCATGCTATGTGAAGGCAATTAAGTCTGCAAGC 240
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QY 241 TGCAGGCAATGTTGCTCCCAAGTGTGTTGTGTGGCGAGCATGTGTCATCATCTCAGA 300
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QY 301 GAGTCAGGGAACCGAGAGATGAGCGAAGCTGAGAG 338
DB 301 AAGCAGGGGAGCTGAGAGAGAGAGCGAAGCGAAGCTGAGAG 338

RESULT 14
US-08-221-653-13

;; Sequence 13, Application US/08221653
;; Patent No. 6190864
;; GENERAL INFORMATION:
;; APPLICANT: Tai-An Cha
;; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
;; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
;; NUMBER OF SEQUENCES: 147
;; CORRESPONDENCE ADDRESSES:
;; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
;; STREET: 600 Atlantic Avenue
;; CITY: Boston
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02210
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette, 5.25 inch
;; OPERATING SYSTEM: IBM compatible
;; SOFTWARE: WordPerfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/221,653
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/07/881,528
;; FILING DATE:
;; APPLICATION NUMBER: 07/697,326
;; FILING DATE: 8 May 1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Janiuk, Anthony J.
;; REGISTRATION NUMBER: 29,809
;; REFERENCE/DOCKET NUMBER: C0772/7000
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 720-3500
;; TELEFAX: (617) 720-2441
;; TELEX: EZEKIEL
;; INFORMATION FOR SEQ ID NO: 13:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 340 nucleotides
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: ns5k2
;; US-08-221-653-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1.4e-68;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACAGTCCGGAGAGAGACATCAGAGCGAGAGTCCATTACCTTGCTGCTCTT 60
DB 1 CTCACCGTCACTGAGAGAGACATCAGACTGAGAGTCCATTACCGAGCTGCTCTT 60
QY 61 ACCGAGCAAGCCCGAAGTCCATCATTCATTGACTGAGAGCTTTAAGTAGAGGGCC 120
DB 61 GCTTAGAGAGGCTTCACTTGCATACACTGCTGACTGAGAGGCTTACGTGGAGGGCC 120
QY 121 CATGATGAACAGCAAGGAGCAGTCTGCGGTTACAGACGTTGCCGCGCAGCGAGTGT 180
DB 121 CATGTTCAACAGCAAGGAGCAGACCTGCGGTTACAGAGGCTTACGTGGAGGGCC 180
QY 181 CACCAACAGCATGGGGAAATACATCATCATGCTATGTGAAGGCAATTAAGTCTGCAAGC 240
DB 181 CACCACTAGCATGGGGAAACATCATCATGCTATGTGAAGGCAATTAAGCGGCTTGAAGGC 240
QY 241 TGCAGGCAATGTTGCTCCCAAGTGTGTTGTGTGGCGAGCATGTGTCATCATCTCAGA 300
DB 241 TGCAGGATAGTTGCACTCTCATGCTGTGTTATGCGGCGAGCATTAAGTTGTATCTCAGA 300
QY 301 GAGTCAGGGAACCGAGAGATGAGCGAAGCTGAGAG 338
DB 301 AAGCAGGGGAGCTGAGAGAGAGAGCGAAGCGAAGCTGAGAG 338

Db 301 AAGCCAGGGGACTGAGAGGAGCAGCGGAACCTGAGAG 338

RESULT 15

US-08-442-144A-13

; Sequence 13, Application US/08442144A
; Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439

TELEX:

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5k2
US-08-442-144A-13

Query Match 73.1%; Score 248.4; DB 3; length 340;

Best Local Similarity 83.4%; Pred. No. 1.4e-68;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACAGCTCGCGAGAGAGACATCAGACCGAGAGTCCATTACCTTGCTGCTCCTT 60
DB 1 CTCACCGCTCACTGAGAGAGACATCAGAACTGAGAGTCCATATACCGAGCTGCTCCCT 60
QY 61 ACCGAGCAAGCCGCACTGCGATCATTCATGTAAGAGAGCTTAAAGTAGAGAGGdC 120
DB 61 GCTGAGAGAGGCTCACTTGCATACACTGCGTGAAGAGGCTCTACGTGGAGAGGdC 120
QY 121 CATGATGAACAGCAAGGAGCAGTCTGCGTTACAGACGTTGCCGCCAGCGAGTGTCT 180
DB 121 CATGTTCAACAGCAAGGCGCAGACCTGCGGGTACAGGCGTTGCCGCCAGCGGdGCT 180
QY 181 CACCAACGAGCATGGGAGATACATCATGCTATGTGAAGGATTAGCTGCTGCAGAAAGC 240
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QY 241 TGCAGGATCGTGTGCTCCACGATGCTGTTGTGCGACGATCTGTCATCATCTCAGA 300
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Job time : 82.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 289.369 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-75
Perfect score: 1195
Sequence: 1 cgnacancctccagcagccccc.....taagcgggccctgatgng 1195

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents, NA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 1173 | 98.2 | 1195 | 3 | US-08-836-075A-75
Sequence 75, Appl |
| 2 | 879 | 73.6 | 9589 | 2 | US-07-925-695-1
Sequence 1, Appl |
| 3 | 879 | 73.6 | 9589 | 2 | US-07-925-695-2
Sequence 2, Appl |
| 4 | 836.2 | 70.0 | 9511 | 2 | US-07-925-695-6
Sequence 6, Appl |
| 5 | 836.2 | 70.0 | 9511 | 2 | US-07-925-695-7
Sequence 7, Appl |
| 6 | 747.4 | 62.5 | 9472 | 3 | US-08-150-204E-96
Sequence 96, Appl |
| 7 | 747.4 | 62.5 | 9595 | 3 | US-09-014-416-4
Sequence 4, Appl |
| 8 | 747.4 | 62.5 | 9599 | 3 | US-09-014-416-6
Sequence 6, Appl |
| 9 | 741 | 62.0 | 1863 | 2 | US-08-470-426B-14
Sequence 14, Appl |
| 10 | 737.8 | 61.7 | 2116 | 3 | US-08-191-160-21
Sequence 21, Appl |
| 11 | 731.4 | 61.2 | 1499 | 2 | US-08-324-977-3
Sequence 3, Appl |
| 12 | 731.4 | 61.2 | 1499 | 2 | US-08-384-616-3
Sequence 3, Appl |
| 13 | 731.4 | 61.2 | 1499 | 2 | US-08-904-686A-3
Sequence 3, Appl |
| 14 | 731.4 | 61.2 | 1499 | 2 | US-09-315-850-3
Sequence 3, Appl |
| 15 | 731.4 | 61.2 | 9416 | 2 | US-08-324-977-1
Sequence 1, Appl |
| 16 | 731.4 | 61.2 | 9416 | 2 | US-08-384-616-1
Sequence 1, Appl |
| 17 | 731.4 | 61.2 | 9416 | 2 | US-08-904-686A-1
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| 18 | 731.4 | 61.2 | 9416 | 3 | US-09-315-850-1
Sequence 1, Appl |
| 19 | 731.4 | 61.2 | 9416 | 3 | US-08-823-895A-27
Sequence 27, Appl |
| 20 | 722.4 | 60.5 | 9413 | 3 | US-09-827-688-6
Sequence 6, Appl |
| 21 | 715.4 | 59.9 | 1863 | 2 | US-08-470-426B-13
Sequence 13, Appl |
| 22 | 711 | 59.5 | 9365 | 2 | US-09-827-688-7
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| 23 | 711 | 59.5 | 12980 | 3 | US-08-811-566-5
Sequence 5, Appl |
| 24 | 711 | 59.5 | 12980 | 3 | US-09-034-756-5
Sequence 5, Appl |

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| 25 | 709.8 | 59.4 | 9401 | 6 | PCT-US91-02225-9 |
| 26 | 709.4 | 59.4 | 9416 | 3 | US-08-823-895A-26 |
| 27 | 709.4 | 59.4 | 9416 | 3 | US-10-104-966-13 |
| 28 | 709.4 | 59.4 | 9416 | 3 | US-09-929-955-13 |
| 29 | 709.4 | 59.4 | 9599 | 3 | US-09-014-416-2 |
| 30 | 709.4 | 59.4 | 9646 | 3 | US-08-811-566-1 |
| 31 | 709.4 | 59.4 | 9646 | 3 | US-09-034-756-1 |
| 32 | 709.4 | 59.4 | 10803 | 3 | US-10-259-275-17 |
| 33 | 708.2 | 59.3 | 9379 | 3 | US-08-444-818-176 |
| 34 | 707.8 | 59.2 | 9185 | 3 | US-08-444-818-122 |
| 35 | 707.8 | 59.2 | 9185 | 3 | US-08-444-818-123 |
| 36 | 707.8 | 59.2 | 9379 | 3 | US-09-388-874-1 |
| 37 | 707.8 | 59.2 | 9379 | 3 | US-09-388-874-1 |
| 38 | 707.8 | 59.2 | 9401 | 2 | US-07-910-760-9 |
| 39 | 707.8 | 59.2 | 9401 | 2 | US-08-440-519-9 |
| 40 | 707.8 | 59.2 | 9401 | 3 | US-08-440-549-9 |
| 41 | 707.8 | 59.2 | 9401 | 3 | US-08-823-895A-25 |
| 42 | 707 | 59.2 | 957 | 3 | US-09-878-281A-143 |
| 43 | 704.6 | 59.0 | 9401 | 2 | US-08-432-693-1 |
| 44 | 704.6 | 59.0 | 9416 | 3 | US-08-811-566-19 |
| 45 | 704.6 | 59.0 | 9416 | 3 | US-09-034-756-19 |

ALIGNMENTS

RESULT 1
US-08-836-075A-75
; Sequence 75, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1195 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-75

Query Match 98.2%; Score 1173; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CGNACANCTCCAGGCCCCCCTCCCGGAGAGCCATGATGTCGCGGAACCGGTGAG 60
DB 1 CGNACANCTCCAGGCCCCCCTCCCGGAGAGCCATGATGTCGCGGAACCGGTGAG 60
QY 61 TACACCGGAATTGCGGGGAAGACTGGGTCCTTTCTTGGATAAACCACCTCTATGCGCGG 120
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QY 361 NCCGAGTNGNNTATGCGCAAGANGAAGACTNCCGAAAGTCCGACCAAGTGGAG 420
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DB 961 AGTCAGCCCRACGTANCGTAGCCGACTGTGTGCTTACCGAGGTTTGGATCGCA 1020
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QY 1141 CCAGGACTGTAACTGTTCCATCTTACCCGGGCAACATAACGGGGCTCGTATGTG 1195
DB 1141 CCAGGACTGTAACTGTTCCATCTTACCCGGGCAACATAACGGGGCTCGTATGTG 1195

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RESULT 2
US-07-925-695-1
; Sequence 1, Application US/07925695
; Patent No. 5428145

GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: Beverlyidge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462

TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 73.6%; Score 879; DB 2; Length 9589;
Best Local Similarity 66.5%; Pred. No. 2; 9e-265;
Matches 795; Conservative 196; Mismatches 204; Indels 0; Gaps 0;

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QY 1 CGNACANCTCCAGGCCCCCCTCCCGGAGAGCCATGATGTCGCGGAACCGGTGAG 60
DB 103 CGUACAGCCUCCAGGCCCCCCTCCCGGAGAGCCAUAGUGUUCGCGAACCGGUGAG 162
QY 61 TACACCGGAATTGCGGGGAAGACTGGGTCCTTTCTTGGATAAACCACCTATATGCGCGG 120

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Db      163 UACACCGGAUUGCCGGGAGAGACUGGAGUCUUUUGAUAACCCACUCUAUUGCCGGU 222
      121 CATTGGGCGTGGCCCGGACAGCTGTARCCGAGTACGCTTGGGTTGCGAAGGCTTGG 180
      223 CAUUGGGCGGUGCCCGGCAAGACUGCAAGCGAUUACUGUGGUGUUGCGAAAGGCGUG 282
      181 TGTACTGCTGATAGAGGAGCTTGGAGTGGCCGGAGGTGCTGTAGACCGTGCATCAT 240
      283 UGGUACUGCCUGAUUGGUGUGUGGAGUGCCCGGAGGUGUCUUAAGACGUGGACCAU 342
      241 GAGCAAAATCTTAATCTCAAGAAAGAAACCAAAAGAAACACTTAACCCGCGCCACAG 300
      343 GAGCAAAATCTTAATCTCAAGAAAGAAACCAAAAGAAACCAACCGUGCGCCACAGA 402
      301 CGTTAAGTTCCCGGCGGTGGCCAGATGCTTGGCGAGATATCTTGTTCCTGTCAGGGG 360
      403 CGUUAAGUUCGCGGCGGCGCGCAGAUUGUGCGGAGUUAUACUUGUGCGCGCAGGGG 462
      361 NCCGAGTNGTNTATGCGCAAGANGAAGACTMCCGACAGTCCAGCCACGTGGAG 420
      463 CCGCAGUUGGUGUGCGCGCAGCAAGAGAGACUUCGAGCGGUCGACGACGUGGAG 522
      421 GCGCCAGCCCATCCCGAAAGATCGGNGACACACTGGCAAGTCTGGGGAGCTGCAGATA 480
      523 GCGCCAGCCCATCCCGAAAGATCGGNGACACACTGGCAAGTCTGGGGAGCTGCAGATA 582
      481 TCCTGCGCCCTGTATGAGAGAGAGGCTCGGGTGGGCGAGGGTGGCTCTGCTCCCG 540
      583 CCGCGGCGCCUUAUUGCGGAGUAGAGGAGACUCGCGCGGCGAGAGUAGUCUUGCCCC 642
      541 GGGCGCCCGCCGCTATGCGGAGCGCCGACGAGCCCGGATAGTGGCCCACTTGGGTA 600
      643 AGGUCGCCGUCUUCUUGGAGGCCCAUAGACCCCGGAGUAGGUCGCGACGUGGAGTA 702
      601 GGTCTGCAATACCTCTACAGTTCGCTTTCGAGCTTTCGAGCTTTCGAGCTTTCGAG 660
      703 GGUCAUCAGUACCUAAAGUAGGCGGCUUUGCCGACUUAUGGGGUAUACUUGGUGAG 762
      661 CGCCCCAGTAGGAGGCGGTGCGCAGAGCTTTCGCGCATGGCGTGAAGTCTGAGAGAG 720
      763 CGCCCCGCGCGCGCGCGCGCAGAGACUUCGCGAGUGGCGUAGAGUACUGAGAGAG 822
      721 GATAAATCTGAAGAAGAGAACTTCCCGGCTTCTTCTATCTCTCTCTCTCTCTCT 780
      823 GGUUAUUDUGCAACAGAGAAACUUAACCGGUGUCUUCUUAUUGGUGGAGGAGG 882
      781 TGTGCTGTAATTAACGAGGAGGAGTTCGCTTGTGAAATCAAAACACACGAAACATA 840
      883 GGUUUCUUGCAUACACCGCGGUCUUCGCGUCCGAGUAGAGAAUACUAGUACCGG 942
      841 CATGCTGATTAACGAGCTTTCAAACAGAGATCACTGGCAGCTTNNNNNGCGGTGCT 900
      943 CAUGGUGACCAACGAGCUGACCAUAGUAGCAUUAUCCGACAGGCGUGGUGUCU 1002
      901 TCACTGCTTGTGATGCTGCTTTCGAGAGAGAGAGGAGCAAGTTCGCGGTGTGATTC 960
      1003 CCACGUCGCCGAGGUGGUCGUGCGAGAAAGUGGAGAAUUAUACUUGGUGGAGUAC 1062
      961 AGTCAAGCCGACGAGTGAAGGCGAGCTGTGTGCTTTCGAGAGGCTTTCGAGTTC 1020
      1063 GGUUUCACGAGUAGGUGGCGUGCAGAGCCGCGGCGCCUACGAGGCGUUAACGAG 1122
      1021 CATGCAACACATGATGAGCTGCGCAACATTTTGTCTGCTTTCATATGAGGAGATG 1080
      1123 CAUUGGACAGUAGUAGUAGUAGCGCACGCTGCGUCCGCUUAUAGUGGAGAGAC 1182
      1081 TGGGCGGATATGATGAGTGGTCCCAAGTGTGATGCTTTCGCGGAGCATCATCTTGT 1140
      1183 CGUGGAGGAGUAGCUGGAGCGCCAGAGUAGUUAUUGGUGGAGAGACACUAGGUG 1242
      1141 CCAGAGCTTAATCTGTTCACTTACCCGCGGACATAACGAGGAGCTGATGTTG 1195

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Db      1243 GCAAGACUGCAUUGCUCUACUUAACCCUGUACCAUACUGAGACCGCAGUGGG 1297

RESULT 3
US-07-925-695-2
Sequence 2, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSER: Beveridge, Degrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: MWI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 73.6%; Score 879; DB 2; Length 9589;
Best Local Similarity 82.6%; Pred. No. 2.9e-265;
Matches 987; Conservative 4; Mismatches 204; Indels 0; Gaps 0;

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Db 343 GAGCAAAATCTTAACCTCAAGAAAAACAAAAAGAAACCAACCGCTGCCACAGAA 402
Qy 301 CGTTAAGTTCCCGGCGGCGTGGCCAGATGTTGGCGGATATATCTTTGTCCTGACAGGG 360
Db 403 CGTTAAGTTTCGGGCGGCGGCGCAATGTTGGCGGATATATCTTTGTCCTGACAGGG 462
Qy 361 NCCAGATNGTNTATGCGCAACGANGAAGACTGCCAAGTCCAGCCAGCTGGAG 420
Db 463 CCCGAGTTGGGTGTGCGCGCAAGAAAGACTTCGAGCGGTCCAGCCAGCTGGAG 522
Qy 421 GCGCCAGCCCATCCGAAAGATCGANGACAACCTGGCAAGTCTGGGGAAGCTCCAGATA 480
Db 523 GCGCCAGCCCATCCGAAAGATCGCGCTCCACTGGCAAAATCTGGGGAAGAAACAGAGATA 582
Qy 481 TCCCGGCGCGCTGATGGAAGAGAGGCGCTCGGGTGGGAGAGGTGGCTCTGCCCCCG 540
Db 583 CCGCTGGCGCGCTATAGGAAATGAGAGGACTCGGCTGGGAGAGATGGCTCTGCCCCCG 642
Qy 541 GGGCTCCCGCGCGTATGAGGAGCGGACCGGCGCATAGGTGCGCAACTTGGGTA 600
Db 643 AGGTTCCCGTCCCTCTTGGGCGCCCAATGACCCCGCATAGGTCCCGCAAGTGGTA 702
Qy 601 GGTATGATACCTCTACAGTTCGAGCTTTCGCACTCATGGGTAATCTCCGCTGTTG 660
Db 703 GGTATGATACCTCTACAGTTCGAGCTTTCGCACTCATGGGTAATCTCCGCTGTTG 762
Qy 661 CGCCCGAGTGGGCGCTGCGCAAGCTTCGCGCATGCGCGTAAGTCTGGAGAGAG 720
Db 763 CGCCCGAGTGGGCGCTGCGCAAGCTTCGCGCATGCGCGTAAGTCTGGAGAGAG 822
Qy 721 GATAAATATGAAAGAGGAACTCCCGGATGCTCTTCTCTATCTCCCTCTGCTCT 780
Db 823 GGTATATTTTGAACAGGAACTTACCGGTGCTCTTTTCTATCTTCTGCTGGCCT 882
Qy 781 TCTGCTGTAATTACCGAGCCAGTTTCTGCTGTAATCAAAAACACGAAACATA 840
Db 883 GCTGCTGCAATCACACCCCGGTCTCGGCTGCCAAGTGAAGAACATCAGTACCGGCTA 942
Qy 841 CATGTTGATGACGATGTTCAACAGTATGATCTGCGAGCTTNNNGCGCGTCT 900
Db 943 CATGTTGATGACGATGTTCAACAGTATGATCTGCGAGCTTCAAGGCTGCTCT 1002
Qy 901 TCACGTTCTGGATGCTGCTGTAAGAGAGGAAAGTTCGCGTCTGATTC 960
Db 1003 CCAAGTCCCGGCGTCTGCGTGGAGAAATGAGGAAATATCTCGGTGCTGATTC 1062
Qy 961 AGTCAAGCCCAAGTAAKNGTGAGCGGACCTGCTGCTTACCGAGGCTTTCGATGCA 1020
Db 1063 GGTCTCACCGAATGCGCGTGCAGAGCCCGGCGCTCAAGAGGCTTTCGAGCGCA 1122
Qy 1021 CATGACACCAATGAGGTGCGCAACATTTGTTCTGCGCTTCAATAGGGAATGATG 1080
Db 1123 CATTAACATGTTGATGATTCGCAAGCTGCTGCTCTTTCATGTTGGGGAAGCTGCTG 1182
Qy 1081 TGGCGCATTAATGATAGTGCAGGAGGTGATCTGCTGCGGAGCATCATCTTGT 1140
Db 1183 CGGTGGGTGATGCTTGAGCGCCAGATGTTCTTCTGCGACAGCATCTGTTGT 1242
Qy 1141 CCAGAGCTGTAATCTGTTCAATCTACCCGCGCAATTAAGGGGCTGTTATGTTG 1195
Db 1243 GCAAGACTGCAATGCTCTCATCTACCTGTTACATCACTGAGACCGCATGGC 1297

RESULT 4

US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Teisuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYPEPTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELE: WU 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6

Query Match 70.0%; Score 836.2; DB 2; Length 9511;
Best Local Similarity 63.9%; Pred. No. 8.4e-252;
Matches 762; Conservative 203; Mismatches 227; Indels 0; Gaps 0;

Qy 1 CGAAGCCTCCAGAGCCCGGCTGCGGAGAGCCATAGTGTCTGCGGAAACCGGAG 60
Db 104 CGUACAGCCTCCAGAGCCCGGCTGCGGAGAGCCATAGTGTCTGCGGAAACCGGAG 163
Qy 61 TACACCGGAATTGCGGGAAGACTGAGTCTTCTTGGATTAACCACTGATGCGGAG 120
Db 164 UACACCGGAATUACCGGAAGAGACUGGGUCCUUCUGGUAUAAACCACTUAGUCCGGU 223
Qy 121 CATTTGGCGTGGCGGCGGCAAGACTGATCCGATGAGTGGTGGTTCGAAAGCCTTG 180
Db 224 CAUUGGGGACGCGCGCGCAAGACUGGCUAGCGGAGUGGUGGUGGUGGUGGUGGUG 283
Qy 181 TGTATGCTGATAGGAGTGGTGGAGTGGCGGAGGCTGCTGAGACGATGATCAT 240
Db 284 UGUACUGGCUAGAGGAGGURCUUGGAGUGGCCGGAAGGUCUGUGAUCGUGCAU 343
Qy 241 GAGCAAAATCTTAACCTCAAGAAAAACAAAAAGAAACATAACCGCGGCCACAGAA 300
Db 344 GAGCAAAAUUCUAAACCTUCAAAGAAAAACAAAAAGAAACAAACCGCGGCCACAGAA 403
Qy 301 CGTTAAGTTCCCGGCGGCGTGGCCAGATGTTGGCGGATATATCTTTGTCCTGACAGGG 360
Db 404 CGUUAAGUCCCGGCGGCGGCGGUGCAUGUGGCGGAGUUAUUGUGCGCGCGCACAGGG 463
Qy 361 NCCAGATNGTNTATGCGCAACGANGAAGACTGCCAAGTCCAGCCAGCTGGAG 420
Db 464 CCCAGGUGGUGGUGGCGGAGCAAGAGACUUCYAGAGAACCCAGCGCGGUGGAG 523
Qy 421 GCGCCAGCCCATCCGAAAGATCGANGACAACCTGGAAGTCTGGGGAAGTCCAGAGATA 480

| | | | |
|----|------|--|------|
| Db | 524 | ACGCGACGCCAATUCCCGAAGAAUUCGGCGUCCACCGGCAAGUCUGGGGAAAGCCAGAAUA | 563 |
| Qy | 481 | TCCCTGGCCCCCTGTATGGAGACGAGGGCCTCGGATGGGACAGTGGCTCTGCCCCCG | 540 |
| Db | 584 | UCCUGGGCCCCUGUACGGAACGAGGGGUGGGGCGUGGGGCGGGUGGCGUCUGCCCCCG | 643 |
| Qy | 541 | GGGCTCCCGCCGCTCATGGGGCCCCACGGACCCCGGCAATGGTCGGGCACTTGGGTAA | 600 |
| Db | 644 | CGGUCUCGUCUACUUGGGGGCCCCACCGACCCCGGCAUAGUACCGCAUUVUUGGCGAG | 703 |
| Qy | 601 | GGTCATCGAATACCTCAGCGTNCGGCTTTCGACCTCATGGGGGTACATCCCGCTGGTGG | 660 |
| Db | 704 | AGCAUCUGAATCCAUUACGUGUGUUUUCGCAUCUAGGGGUAACACCCUGCGUUGG | 763 |
| Qy | 661 | CGCCCCAGTAGGNGGCGTGCAGAGAGCTTCGCGCATGGCGTGAAGTCCGTGAGAGACGG | 720 |
| Db | 764 | CGCCCCGGUGGAGGGGCGUCGCGAGAGCUCUGGACACGAGUUGAGGUCUCGGAGAGACGG | 823 |
| Qy | 721 | GATAAATATAGAAACAGGGAACCTCCCGGTTGCTCTTCTCTCATCTCCCTCTTGCTCT | 780 |
| Db | 824 | GAUAAAUUACGCAACAGGGGAUUUACCCGGUGUGUCUUUUUUAUUCUUUUUGUGUCUCU | 883 |
| Qy | 781 | TCTGTCTGTAATTAACGAGCCAGTTTCTGTCTGTGAAATCAAAAACACAGAAACACATA | 840 |
| Db | 884 | UCUGUACUGGUCACARUCGAGUGUUCGCAUGGAAAGUCAGAAACATUAGUUCUAGCUA | 943 |
| Qy | 841 | CATGTGTACTAAGACTGTTCAAAACAGTAGCATCACTGGCAGGCTTNNAGNCCGGGTGCT | 900 |
| Db | 944 | CUACGCCACUAAAGAUUGUCUAAAACAAACGACUACCTGGGAGGUCUACUGACGAGUUCU | 1000 |
| Qy | 901 | TCAAGTTCTGAGTAGGCGTCCCGTGGAAAGAGAGGGCAACGTTCCCGGTCGAGATTCC | 960 |
| Db | 1004 | CGAUCUUUCUGAUGGCGUCCCAUGGAGAAATGAUAAATGGCACCTUUGCRUUCCTGGAAACA | 1060 |
| Qy | 961 | AGTCAAGCCCGACGTAKNAGTGAAGCGGACCTGGTCCCTTAAACGAGGGTTTGGCATTGCA | 1020 |
| Db | 1064 | AGUAAACCCRRACGUGGCGUGUGAAACACCGGGUGCGUCUUGUGAGCUGGCAACA | 1120 |
| Qy | 1021 | CATGCAACCAATCTGAGCGTCCGCAACATTTTGTCTGACCTCTAATAGGGGATGTATG | 1080 |
| Db | 1124 | CGUGCAUAGAUUGGUAUGGACGUAACGGCCUGCGGCTUUUAUUGGGAAGAUUGUGG | 1180 |
| Qy | 1081 | TGGCGCGAATATATAGCTGCCCAAGTGTACTCTCTGCCGGAAGATCATCACTTTGT | 1140 |
| Db | 1184 | CGGGGCGUAUAGUVCUAUCGAGGCUUUAUGUUAACACCAACGCCCAACUUCAC | 1240 |
| Qy | 1141 | CGAGAGCTGTAACTGTTCATGATCCCGGGCCACATTAACGGGGGCTCGTATG | 1192 |
| Db | 1244 | CGAAGGUGCAUUGUUUCAUUCACCAAGUUCACUACCGGCAUUGCGAGG | 1295 |

RESULT 5
 US-07-925-695-7
 : Sequence 7, Application US/07925695
 : Patent No. 5428145
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: OKAMOTO, Hiroaki
 : APPLICANT: NAKAMURA, Tetsuo
 : TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
 : TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 : NUMBER OF INVENTION: DETECTION SYSTEMS
 :
 : NUMBER OF SEQUENCES: 9
 :
 : CORRESPONDENCE ADDRESS:
 :
 : ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
 : STREET: 1850 M Street, N.W., Suite 800
 : City: Washington
 : STATE: D.C.
 : COUNTRY: US
 : ZIP: 20036
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible

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1  OPERATING SYSTEM: PC-DOS/MS-DOS
2  SOFTWARE: PatentIn Release #1.0, Version #1.25
3  CURRENT APPLICATION DATA:
4  APPLICATION NUMBER: US/07/925,695
5  FILING DATE: 19920807
6  CLASSIFICATION: 435
7  PRIOR APPLICATION DATA:
8  APPLICATION NUMBER: JP 287402/91
9  FILING DATE: 09-AUG-1991
10 PRIOR APPLICATION DATA:
11 APPLICATION NUMBER: JP 360441/91
12 FILING DATE: 05-DEC-1991
13 ATTORNEY/AGENT INFORMATION:
14 NAME: Weilacher, Robert G.
15 REGISTRATION NUMBER: 20,531
16 REFERENCE/DOCKET NUMBER: 06/87-48009
17 TELECOMMUNICATION INFORMATION:
18 TELEPHONE: (202) 659-2811
19 TELEFAX: (202) 659-1462
20 TELEX: WUI 64470
21 INFORMATION FOR SEQ ID NO: 7:
22 SEQUENCE CHARACTERISTICS:
23 LENGTH: 9511 base pairs
24 TYPE: NUCLEIC ACID
25 STRANDEDNESS: single
26 TOPOLOGY: linear
27
28 US-07-925-695-7

```

| Query Match | Similarity | 70.0% ; Score 836.2 ; DB. 2 ; | Length 9511 ; |
|-------------|------------|---|---------------------|
| Best Local | Similarity | 80.2% ; Pred. No. 8,4e-252 ; | |
| Matches | 956 ; | Conservative 9 ; Mismatches 227 ; | Indels 0 ; Gaps 0 ; |
| Qy | 1 | CGANCAACCTTCAGAGCCCCCTCTCCGGAGAGCCATAGTGTCTTCGGAACCGGTGAG | 60 |
| Db | 104 | CGTCAACCTTCAGAGCCCCCTCTCCGGAGAGCCATAGTGTCTTCGGAACCGGTGAG | 163 |
| Qy | 61 | TACACCGGAATTCGCGGGAAAGACTGGGTCTCTTCTTGGAATAACCACTCATGCGCGG | 120 |
| Db | 164 | TACACCGGAATTCGCGGAAGACTGGGTCTCTTCTTGGAATAACCACTCATGTCGGGT | 223 |
| Qy | 121 | CATTTCGGCGTGCCTCCCGCAAGACTGTCTACCGAGTAGCTTGGGTTGCAGAAAGGCTTG | 180 |
| Db | 224 | CATTTCGGGCAAGCCCCCGCAAGACTGTCTACCGAGTAGCTTGGGTTGCAGAAAGGCTTG | 283 |
| Qy | 181 | TGTATCTGCTGATAGGGGTCTTGCGAGTGCCTCCGGAGGTCTTCGTAGACCTGTGCATCAT | 240 |
| Db | 284 | TGTATCTGCTGATAGGGGTCTTGCGAGTGCCTCCGGAGGTCTTCGTAGACCTGTGCATCAT | 343 |
| Qy | 241 | GAGCACAAAATCTTAAACCTCAAGAAACCAAGAAAGAAACACTAACCGCGCCCAACGAA | 300 |
| Db | 344 | GAGCACAAAATCTTAAACCTCAAGAAACCAAGAAAGAAACCAAGAAACCGCGCCCAACGAA | 403 |
| Qy | 301 | CGTTAAGTTCCCGGCGGTGGCCAGATCGTTGGCGAGTACTTGTGTGCGTTCAGAGGG | 360 |
| Db | 404 | CGTTAAGTTCCCGGCGGTGGCGGTGAGATCGTTGGCGAGTACTTGTGTGCGGCGAGGGG | 463 |
| Qy | 361 | NCCAGGTGNGTNTATATGCCCAACGANGAAGACTTCCGAAACAATGCCAGCCAGTGGGAG | 420 |
| Db | 464 | CCCAGGTGTGGGTGTGGCGCGCAAGAAAGACTTCTTGACCGATCCCAAGCGGTGGAGC | 523 |
| Qy | 421 | GCGCACAACCATCCGGAAGATCGAGNCAACAATGGCAATCTCTGGGGAAGGTCCAGAGTA | 480 |
| Db | 524 | ACGCACAACCATCCGGAAGATGGCGCTCAACCGGAAATCTCTGGGGAAGGCAAGAGTA | 583 |
| Qy | 481 | TCCTGGCCCCCTGTATGGGAACGAGGCGCTTCGGGTGGGCAAGGTGCTCTGTTCCTCCCG | 540 |
| Db | 584 | TCCTTGGCCCCCTGTATCGGAACGAGGCTTCGGGTGGGCAAGGTGCTCTGTTCCTCCCG | 643 |
| Qy | 541 | GGGCTCCCGCCGTCATAGGGGCCCAACGAGACCCCGGCATAGGTGCGCAACTTGGGTA | 600 |
| Db | 644 | CGGGTCTCTGTCATCTTGGGGCCCAACGAGACCCCGGCATAGATCAAGCAATTTGGGAG | 703 |
| Qy | 601 | GGTCATGATACCTTCACGTCGCTTTTNCGACTTCATGGGATCAATTCGCTGTTGG | 660 |

Db 704 AGTCATGATACCATTAAGTGTGTTTGCCGACCTCATGGGGTACATCCCTGTGTTGG 763
Qy 661 CGCCCCATAGAGGCGCTCCGAGAGCTCTGCGGATAGGCGTGAAGTCCGAGAGAGG 720
Db 764 CGCCCCGATGGAGGCGTCCGAGAGCTCTGCGGATAGGCGTGAAGTCCGAGAGAGG 823
Qy 721 GATAAATATAGGAAAGGAACTCCCGGATGCTCTTCTCTATCTCCCTCTGCTCT 780
Db 824 GATAAATATAGGAAAGGAACTTTCACCGGTTGCTCTTCTCTATCTTCTGCTCT 883
Qy 781 TCTGCTGAAATTCAGGCGGCACTTCTGCTGTGAATCAAAACACGAGAACATTA 840
Db 884 TCTGCTGAAATTCAGGCGGCACTTCTGCTGTGAATCAAAACACGAGAACATTA 943
Qy 841 CATGCTGATACGAGCTGTGTAACAGAGATCACTGCGAGCTTNNNNCGCGCTCT 900
Db 944 CTACGCGCACTAATGATGCTCAAAACAGAGATCACTGCGAGCTCTGAGCGAGTCT 1003
Qy 901 TCACGCTCTGAGTGTGCTCCCTGTGAACGAGAGGCAACAGTCCCGGCTGATTC 960
Db 1004 CCAATCTCTGATGCTGCTCCCATGTGAAGATTAAGGACCTTGCTGTGATTA 1063
Qy 961 AGTCAAGCCCGACGTAACGAGGCGGAGCGGCTGAGCGGCTTAAACGAGGCTTGCATTCGA 1020
Db 1064 AGTCAAGCCCGACGTAACGAGGCGGAGCGGCTGAGCGGCTTAAACGAGGCTTGCATTCGA 1123
Qy 1021 CATGCAACCATGCTAGAGCTCCGCAACATTTGTTCTGCGCTCTACATAGGAGATGATG 1080
Db 1124 CATTCAACATGCTAGAGCTCCGCAACATTTGTTCTGCGCTCTACATAGGAGATGATG 1183
Qy 1081 TGGCGCATATAGATAGTCCCAAGTGTGATCTGCTGCGGAGCATCATCATTGTT 1140
Db 1184 CGGGGCGGATGATGATCTATCGAGGCTTATGATATCAGCAACGCAACATTTGATC 1243
Qy 1141 CCAGAGCTGTAATGTTCCATCTACCCGGGCAATACGGGGCTCGATG 1192
Db 1244 CCAGAGCTGTAATGTTCCATCTACCCGGGCAATACGGGGCTCGATG 1295

RESULT 6
US-08-150-204E-96
; Sequence 96, Application US/08150204E
; Patent No. 6538126
GENERAL INFORMATION:
APPLICANT: CHO, Joong Myung
LEE, Yong Beom
PARK, Young Woo
LIM, Kook Jin
CHOI, Deog Young
SO, Hong Seob
KIM, Chun Hyung
KIM, Sung Taek
YANG, Jae Young
TITLE OF INVENTION: HEPATITIS C DIAGNOSTICS AND VACCINES
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
ADDRESSEE: YANG, Jae Young
STREET: 386-1, Doryong-dong, Yuseong-gu
CITY: Daejeon
STATE: Daejeon
COUNTRY: Republic of Korea
ZIP: 305-340
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5inch, 1.44MB storage
COMPUTER: IBM PC/pentium
OPERATING SYSTEM: Windows
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/150,204E
FILING DATE: 20-Apr-1994
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:

APPLICATION NUMBER: KR 91-9510
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: KR 91-13601
FILING DATE: 6-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Shahan Islam, Esq.
REGISTRATION NUMBER: 32,507
REFERENCE/DOCKET NUMBER: 2695/ELK
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 940-8564
TELEFAX: (212) 940-8776
INFORMATION FOR SEQ ID NO: 96
SEQUENCE CHARACTERISTICS:
LENGTH: 9472 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
OTHER INFORMATION: KHCY-LBCL, Fig. 2
SEQUENCE DESCRIPTION: SEQ ID NO: 96
US-08-150-204E-96
Query Match 62.5%; Score 747.4; DB 3; Length 9472;
Best Local Similarity 75.8%; Pred. No. 7.3e-224;
Matches 904; Conservative 4; Mismatches 284; Indels 0; Gaps 0;
Qy 1 CGMNCANCTTCAGAGCCCGCCCTCCGAGAGAGCCATGATGCTGCGGAGCGGTGAG 60
Db 105 CGTGAAGCTTCAGAGAGCCCGCCCTCCGAGAGAGCCATGATGCTGCGGAGCGGTGAG 164
Qy 61 TACACCGGAATTCGCGGAGAGACTGAGTCTTTCTTGATTAACCACTATGCGCGGC 120
Db 165 TACACCGGAATTCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 224
Qy 121 CATTGGGCGTGGCCCGGCAAGACTGCTARCCGATGAGCTTGGGTGGCAAGCGCTTG 180
Db 225 GATTGGGCGTGGCCCGGCAAGACTGCTARCCGATGAGCTTGGGTGGCAAGCGCTTG 284
Qy 181 TGTGACGCTGATAGAGGCTGTCGAGTGCCTCCGAGAGAGCTGATGACCGGTATCAT 240
Db 285 TGTGACGCTGATAGAGGCTGTCGAGTGCCTCCGAGAGAGCTGATGACCGGTATCAT 344
Qy 241 GAGCACAATCTCTAACTCTCAAGAAAAAAGAAAAAGAAACATTAACCGCGCCACAGGA 300
Db 345 GAGCACAATCTCTAACTCTCAAGAAAAAAGAAAAAGAAACATTAACCGCGCCACAGGA 404
Qy 301 CGTTAAGTTCCCGGCGGTGCGCAGATGCTGTCGAGATATCTTTGTCCTGACAGGG 360
Db 405 TATTAAAGTTCCCGGCGGTGCGCAGATGCTGTCGAGATATCTTTGTCCTGACAGGG 464
Qy 361 NCCAGGTMNGTMTATGCGCAAGAGAGAGCTNCCGAACAGTCCAGAGCGATGGAG 420
Db 465 CCCAGGTTGGGTGTGCGCGAGCTTGAAGAACTTCGAGCGGTGCGAAGCTGTGAGAG 524
Qy 421 GCGGAGCCCATTCGGAAGATCGAGGACCACTGGAAGTCTGAGGAGCTGACAGATA 480
Db 525 GCGAGAGCTTATCCCAAGCTGCGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 584
Qy 481 TCCCTGCGCTGTATGAGGAGAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540
Db 585 CCGTGGCGCTCTATGCAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 644
Qy 541 GGGGTCGCGCGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
Db 645 CGGCTCCCGGCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 704
Qy 601 GGTATGATACCTCTCAAGTTCGAGCTTTCGAGCTTCAAGGAGGATTCCTGCTGTTG 660
Db 705 GGTATGATACCTCTCAAGTTCGAGCTTTCGAGCTTCAAGGAGGATTCCTGCTGTTG 764
Qy 661 CGCCCCATAGAGGCGTCCGAGAGCTCTGCGGATGCGGTGAAGTCTGAGAGAGCG 720

Db 765 GCCTCCCTAGGGGCGTTGCCAGGAGCCCTGCGACATGCTGTCGGAGTCTGAGAGACGG 824
 QY 721 GATAAATATGAAACAGGGAACCTCCCGGTTGCTCTTTCTATCTCCCTCTGCTCT 780
 Db 825 CGTGAACATATGAAACAGGGAATCTGCGGTTGCTCTTTCTATCTCTCTTGGCTCT 884
 QY 781 TCTGTCGTGAATTAACCGGCGCAGTTTCTGCTGAGAAATCAAAAACACAGMAACACATA 840
 Db 885 GCTGTCCTGTTTGAACACCCAGTTTCCGCTTATGAGTGCTAAAGTGAGTACGCGTCCGGATGTA 944
 QY 841 CATGCTGACTAACAAGCTGTTCAACAGTATCACTGCGACGCTTNNNNCGGCTGCT 900
 Db 945 CCATCTCAAGAACGACTGCTCCACTCAAGCTTGTATGAGGACGAGCATATCAT 1004
 QY 901 TCACGTTCTGAGTACGTCCTCCCTGTGAACGAGAGGGAACAAGTCCCGGCTGAGTATCC 960
 Db 1005 GCACATCCCGGCTGCGCTGCTGCTTGGAGGAGCAACTCTCCGCTGCTGAGGATGAC 1064
 QY 961 AGTCAAGCCCGACATGATKNGGTAGAGCCGACCTGTCCTTAACCGAGGTTTGCATCGCA 1020
 Db 1065 ACTTACTCCACGCTCGCGGCGCAGGAATGCGAGCTCCCACTAGACATTCGACGCGCA 1124
 QY 1021 CATGCAACCATCTGAGGCTCGGCAACATTTGTTCTGCTTACATATAGGAGATGATG 1080
 Db 1125 TGTCACTTGTCTGTTGGGGTATGCTGCTTCTGTTCCGTAATGATGCTGGGGGACCTCTG 1184
 QY 1081 TGGGCGCATTAATGATAGTCCCAAGTGTGATGCTGCTGCGCGAGCATCATCTTGT 1140
 Db 1185 CGATCTGTTTCTTCTTGTTCACAGCTGTACCTTTTGTGCTGCGCGCATAGACGAT 1244
 QY 1141 CCAGAGCTGTAATCTTCCATCTAACCCGGGCGCACATAACGGGGGCTCGTATG 1192
 Db 1245 ACAGGACTGCAACTGCTCAATCTATCCGGCGCGCTATCAGGTACACCGCATG 1296

RESULT 7 US-09-014-416-4

; Sequence 4, Application US/09014416
 ; Patent No. 6153421
 ; GENERAL INFORMATION:
 ; APPLICANT: Yanagi, Masayuki
 ; APPLICANT: Buhi, Jens
 ; APPLICANT: Emerson, Susanne U.
 ; APPLICANT: Purcell, Robert H.
 ; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
 ; FILE REFERENCE: 20264276
 ; CURRENT APPLICATION NUMBER: US/09/014,416
 ; CURRENT FILING DATE: 1998-01-27
 ; EARLIER APPLICATION NUMBER: US 60/053,062
 ; EARLIER FILING DATE: 1997-07-18
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 9595
 ; TYPE: DNA
 ; ORGANISM: Hepatitis C virus
 US-09-014-416-4

Query Match 62.5%; Score 747.4; DB 3; Length 9595;
 Best Local Similarity 75.8%; Pred. No. 7,4e-224;
 Matches 904; Conservative 4; Mismatches 284; Indels 0; Gapd 0;

QY 1 CGNACACCTCGAGGCCCCCTCCCGGAGAGCCATATGCTGTGCGAAACCGGTAG 60
 Db 104 CGTGAGGCTTCAGAGCCCTCCCGGAGAGCCATATGCTGTGCGAAACCGGTAG 163
 QY 61 TACACCGAATTCGCGGGAAGCTGGGTCTTTCTGATTAACCCACTATATGCGGCG 120
 Db 164 TACACCGAATTCGCGGGAAGCTGGGTCTTTCTGATTAACCCACTATATGCGGCG 223
 QY 121 CATTTGGGCGTCCCGCGAAGACTGTATCCGATAGCGTTGGGTTCGAAAGCCCTTG 180

Db 224 GATTTGGGCGTCCCGCGAAGCTGTATCCGATGATGTTGGGTCCGAAAGCCCTTG 283
 QY 181 TGTACTGCTGATAGGGTGTCTTGAGTGCCTCCGAGAGGTCTGTAGACCGTGATCAT 240
 Db 284 TGTACTGCTGATAGGGTGTCTTGAGTGCCTCCGAGAGGTCTGTAGACCGTGATCAT 343
 QY 241 GAGCAAAATCTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCGACAGCA 300
 Db 344 GAGCAAGAAATCTAAACCTCAAGAAAAACCAAAAGAAACATAACCGCGCCGACAGCA 403
 QY 301 CATTAAAGTTCGGGGCGGTGCGCAATGCTGTGGCGAGTATCTTTGTCCTNTGAGGG 360
 Db 404 CGTCAAGTTCGGGGCGGTGCGCAATGCTGTGGCGAGTATCTTTGTCCTNTGAGGG 463
 QY 361 NCCAGGTTGATGATGCGCAAGAGAAAGATNCCGAACAGTCCAGCCAGCGTGGAG 420
 Db 464 CCCAGGTTGATGATGCGCAAGAGAAAGCTTCCAGCGGTGCGCAACCTCGTGAAG 523
 QY 421 GCGCAGCCCATCCCGAAAGATCGAGACCACTGCGAAGTCTGAGGAGCTCCAGAGTA 480
 Db 524 GCGAACAATATCCCAAAAGCTCCGCAACCGAGGCGAGGCTGAGGCTCAGCCCGGTA 583
 QY 481 TCCTGCTCCTGTATAGGAAAGAGGCGCTCGGGTGGGCAAGGTGCTCTGTCCTCCCG 540
 Db 584 CCTTGGCCCTCTATAGGCAATGAGGCGCTGGGGTGGGCAAGGTGCTCTGTCACCCG 643
 QY 541 GGGTCCCGCCCTGATAGGAGGCGCCAGAGCCCGGCAATAGGTGCGCAACTTGGGTAA 600
 Db 644 CGGCTCCCGGCTATAGTGGGCGCCAGAGCCCGGCAATAGGTGCGCAACTTGGGTAA 703
 QY 601 GGTATGATATCTCTCAAGTTCGCTTNNCGAAGCTATAGGAGTAACTTCCGCTGTG 660
 Db 704 GTATATGATATCTCTCAAGTTCGCTTNNCGAAGCTATAGGAGTAACTTCCGCTGTG 763
 QY 661 CGCCCCAGTAGAGGCGCTCGCAGAGCTCTGCGCATGCGGTGAGTCTTGAGAGACG 720
 Db 764 CGCCCCCTAGGGGCGCTCGCAGAGCTTGGCAGAGTGTCCGGGTTCTGAGAGACG 823
 QY 721 GATAAATATGAAACAGGGAACCTCCCGGTTGCTCTTCTATCTCCCTCTGCTCT 780
 Db 824 CGTAACTATGAAACAGGGAACCTCCCGGTTGCTCTTCTATCTCCCTCTGCTCT 883
 QY 781 TCTGTCGTGAATTAACCGGCGAGTTTCTGCTGTAATCAAAAACACAGMAACACATA 840
 Db 884 GCTGTCCTGTTTGAACATCCAGCTTCGCTTATGAGTGGCAACGTCGCGGATATA 943
 QY 841 CATGTAATTAACGACTGTTCAACAGYAGCATCACTGCGAGCTTNNNNCGCGTCT 900
 Db 944 CCATGTACGAAACGACTGCTCAACTCAAGCATTTGTATGAGGACGAGCGATCAT 1003
 QY 901 TCACGTTCTGAGTCCGCTCCCTGTGAAACGAGAGGCAACATTTCCGGTGTGATTC 960
 Db 1004 GCATATCTCCCGGGTGCCTGCTGTGTTCAAGAGGTTAAAGCTCCGTTGCTGTAGC 1063
 QY 961 AGTCAAGCCCGACATGATKNGGTAGAGCCGACCTGTCCTTAACCGAGGTTTGCATGCA 1020
 Db 1064 GCTACTCCACAGCTGCGCGGCGAGGAATGCGAGGCTCCCACTAGCAATAGACGCGCA 1123
 QY 1021 CATGCAACCATCTGAGGCTCGGCAACATTTGTTCTGCTTACATATAGGAGATGATG 1080
 Db 1124 CGTGAATGCTGCTGAGGAGCGGTGCTTCTGCTCGCTATATGATGCTGGGGGATCTCTG 1183
 QY 1081 TGGGCGCATTAATGATAGTCCCGCAAGTGTATGCTTCCCGGAGATCATCTTGT 1140
 Db 1184 CGATCTAATTTTCTGCTTCCAGCTGTTCACTTCTGCTGCGCGGATGAGACAT 1243
 QY 1141 CCAGAGCTGTAATCTTCCATCTAACCCGGGCGCACATAACGGGGCTCGTATG 1192
 Db 1244 GAGGACTGCAACTGCTCAATCTATCCCGGCGCATATCAGGTACCGCATG 1295

RESULT 8 US-09-014-416-6

```

; Sequence 6, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Bohn, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; FILE OF INVENTION: US95 THEROP
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9599
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-014-416-6

Query Match      62.5%; Score 747.4; DB 3; Length 9599;
Best Local Similarity 75.8%; Pred. No. 7.4e-224;
Matches 304; Conservative 4; Mismatches 284; Indels 0; Gaps 0;

QY      1  CGMACANCTCCAGGCCCCCCCCCGGAGAGCATAGTGTCTGGGGAACGGTAG 60
DB      104  CGTGACGCTTCAGAGCCCCCCCCCGGAGAGCATAGTGTCTGGGGAACGGTAG 163
QY      61  TACACCGGAATTCGCGGGAAGACTGGGTCCTTTCTTGATTAACCATCTATGCCGCG 120
DB      164  TACACCGGAATTCGCGGAGAGAGCGGGTCCTTTCTTGATTAACCATCTATGCCG 223
QY      121  CATTTGGCGTGTCCCCCGCAAGACTGCTARCCGAGTAGCGGTGGTGGGAAAGCCTTG 180
DB      224  GATTTGGCGTGTCCCCCGGAGAGCTGCTAGCGAGTAGTGGTGGGAGGAGCCTTG 283
QY      181  TGGTACTGCTGATAGGGGCTTGGAGAGCCCCCGGAGAGCTGCTGAGACGGTAGCAT 240
DB      284  TGGTACTGCTGATAGGGGCTTGGAGAGCCCCCGGAGAGCTGCTGAGACGGTAGCAT 343
QY      241  GAGCAAAATCTTAAACCTCAAGAAAAAACAAGAAAAACTAAACCGCGCCACAGGA 300
DB      344  GAGCAAAATCTTAAACCTCAAGAAAAAACAAGAAAAACTAAACCGCGCCACAGGA 403
QY      301  CGTTAAGTTCCCGGCGGTGGCCAGATCGTTGGCGGAGTACTTGTTCCTGCAAGG 360
DB      404  CGTTAAGTTCCCGGCGGTGGTCCAGATCGTTGGAGTTTACTGTTCCTGCGCAGG 463
QY      361  NCCGAGTNGNNTATGGCAACGANGAAGACTNCGAAGTCCCGACCGCAGTGGAG 420
DB      464  CCCAGAGTGGGTGGCGCGCACTAGAGAGGCTTCGAGCGAGTCCGAACTCGTGAAG 523
QY      421  GCGCCAGCCCATCCCGAAAGATCGGNGACACACTGGCAAGTCTGGGAGCGTCCAGATA 480
DB      524  GCGAACAATATCCCAAAGGCTCCGCAACCGAGGCAAGGCGTGGGCTCAACCCGGGATA 583
QY      481  TCCCTGGCCCTGTATGGGAAGAGGCTTGGGTGGGAGGAGGCTCTCTCCCGCCG 540
DB      584  CCTTGGCCCTGTATGGGAAGAGGCTTGGGTGGGAGGAGTGTCTCTCTCAACCCG 643
QY      541  GGGCTCCCGCCGCTCATGGGGGCCCAAGAACCCCGGCGATAGGTGCGCACTTGGGTAA 600
DB      644  CGGCTCCCGCCCTAGTTGGGGCCCCCAAGAACCCCGGCGATAGGTGCGCACTTGGGTAA 703
QY      601  GGTTCATGATACCTTCACGTTNCGGCTTTTCCGACCTCATGGGGTACATTCCTGGTGG 660
DB      704  GGTTCATGATACCTTCATACATGGGCTTCCCGCATCTCATGGGGTACATTCCTGGTGG 763
QY      661  CGCCCCAGTAGAGGCGTGGCCAGAGACTTCTGGCGCATGGCGTGAAGTCTTGAAGACGG 720
DB      764  CGCCCCAGTAGAGGCGTGGCCAGAGACTTGGCGCATGGGTGTCCGGGTTCTGAAGACGG 823

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QY      721  GATAAATATGAACAGGAACCTCCCGGTGCTTTTCTATCTCCCTCTTGCTCT 780
DB      824  CGTGAATATGCAACAGGAACCTGCCGGTGTGCTTTCTCTATCTCTCTTGCTCT 883
QY      781  TCTGTCTGAATTAACCGAGCTTTTCTGTGTGAATCAAAAACACAGAACATA 840
DB      884  GCTGTCTGTGTGACATCCAGCTTCCGCTTATGAAGTGGCAACGTGTCCGGATATA 943
QY      841  CATGTGACTAAGACAGTTCATAACAGTAGATCAACCGAGAGCTTNNNGGCGGTCT 900
DB      944  CCATGTACAGAACAGCTGCTCAACTCAAGCATTTGTATGAGGACAGCGAGCATCAT 1003
QY      901  TCACGTTCTGATAGCGTCCCTGTGAACGAGAGGCAACAGTTCGCGTGTGATTC 960
DB      1004  GCATACCTCCGGGTGCGGCTGCTGTGTTCAGAGAGGATACAGCTCCGTTGCTGGTAGC 1063
QY      961  AGTACGCGCCACGTATNNGTGAAGCCGACTGTGTGCTTAAACGAGGATTTGCATGCA 1020
DB      1064  GCTCATCTCCAGCTCCGGGCGCAAGAAATGCCAGCGTCCCACTACGAACAATACGACGCCA 1123
QY      1021  CATGACACCATCTGTAGCTCCGCAACATTTGTTGCTGCTCCCTTACATAGGGGATGATG 1080
DB      1124  GGTGACTGTGCTGTGGAGCGGTGCTTCTGTCTGCTATATGACGTGGGGATCTTG 1183
QY      1081  TGGCGCGATATGATAGCTGCGCAAGTGTATGCTGTGCGCGAGCATCATCTTGT 1140
DB      1184  CGGATCTATTTTCTGCTGCTCCAGCTGTTCACCTTCTCGCTGCGCGGATGAGACAGT 1243
QY      1141  CGAGACTGTAACTGTTCCATCTACCGGCGCCACATTAACGGGAGCTGTATG 1192
DB      1244  GCAGAGCTGCAACTGCTCAATCTATCCGCGCCATGATACAGGTACCGCAGT 1295

RESULT 9
US-08-470-426B-14
; Sequence 14, Application US/08470426B
; Patent No. 5856458
; GENERAL INFORMATION:
; APPLICANT: Okamoto, Hiroaki
; APPLICANT: Nakamura, Tetsuo
; TITLE OF INVENTION: OLIGONUCLEOTIDE PRIMERS, AND THEIR
; APPLICATION: APPLICATION FOR HIGH-FIDELITY DETECTION OF NON-A, NON-B
; TITLE OF INVENTION: HEPATITIS VIRUS
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bayeridge, Degrandi, Weillacher & Young,
; ADDRESSEE: L.L.P.
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,426B
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-153402
; FILING DATE: 12-JUN-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/59-47083.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; INFORMATION FOR SEQ ID NO: 14:

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SEQUENCE CHARACTERISTICS:
 LENGTH: 1863 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: unknown
 MOLECULE TYPE: DNA (genomic)
 US-08-470-426B-14

Query Match 62.0%; Score 741; DB 2; Length 1863;
 Best Local Similarity 75.5%; Pred. No. 2.8e-222;
 Matches 900; Conservative 4; Mismatches 288; Indels 0; Gaps 0;

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OY 1 CGNACACCTCCAGGCCCCCCCCCGGAGAGCCATAGTGTCTGCGGAACCGGTAG 60
DB 87 CGTGAGCTCCAGGACCCCCCTCCCGGAGAGCCATAGTGTCTGCGGAACCGGTAG 146
OY 61 TACACCGGAATTCGCGGGAAGACTGGTCTTTTGGATAAACCACTCTATGCCCGG 120
DB 147 TACACCGGAATTCGCGGGAAGAGAGAGCGGGTCTTTTGGATCAACCCGCTCATATGCTTGA 206
OY 121 CATTTGGGCGTCCCCCGCAAGACTGTCTACCGAGTAGGCTTGGGTTGGAAAGGCTTG 180
DB 207 GATTTGGGCGTCCCCCGGAGACTGTCTACCGAGTAGTGTGGTCCGAAAGGCTTG 266
OY 181 TGGTACTGCTGATAGGCTGCTTGGAGAGTCCCGGAGGTTCTGTAGACCGTGCATCAT 240
DB 267 TGGTACTGCTGATAGGCTGCTTGGAGAGTCCCGGAGGTTCTGTAGACCGTGCATCAT 326
OY 241 GAGCACTAATCTTAACCTCAAGAAAGAAACCAAAAGAACTAAACCGCGCCACAGGA 300
DB 327 GAGCACTAATCTTAACCTCAAGAAAGAAACCAAAAGTAAACCAACCGCGCCACAGGA 386
OY 301 CGTTAAGTTCCCGGCGGCGTGGCGAGATCGTTGGCGGAGATATCTTGGCCNTGAGGG 360
DB 387 CGTCAAGTTCCCGGCGGCGTGGCGAGACTAGGAAGACTTCCGAGCGGTGCAACCTCGTGA 446
OY 361 NCCGAGTNGTNTATGCGCAACGANGAAGACTNCCGAACGTCCAGCCACGTGGAG 420
DB 447 CCCCAGTTGGGTGTGGCGGAGCTTAGGAAGACTTCCGAGCGGTGCAACCTCGTGA 506
OY 421 GCGCCAGCCCATCCCGAAAGATCGGACCACTGGCAATCTCTGGGGAAGTCCAGATA 480
DB 507 GCGAACACTATCCCAAGGCTGCGGAGCCGAGGAGGCGTGGGCTCAAGCCCGGAGTA 566
OY 481 TCCCGGCGGCGTGTAGGGAAGAGAGGCGTGGGAGGCGAGGAGGCTGCTCCCGCG 540
DB 567 CCTTGGCGGCGTGTAGGGAAGAGAGGCGTGGGAGGAGGAGGCTGCTGTCACCCG 626
OY 541 GGGCTCCCGCGCGTATGAGGCGCCCAAGGAGCCCGGAGATAGTGGCGCAACTTGGGTA 600
DB 627 GCGCTCCCGCGCGTATGAGGCGCCCAAGGAGCCCGGAGTAGTGGCGTAAGTGGGTA 686
OY 601 GGTATGATATCCTCAAGTTCGCTTTCGCACTCATAGGAGTACATTCGCTGCT 660
DB 687 GGTATGATATCCTCAAGTTCGCTTTCGCACTCATAGGAGTATATTCGCTGCT 746
OY 661 GGTATGATATCCTCAAGTTCGCTTTCGCACTCATAGGAGTACATTCGCTGCT 720
DB 747 GCGCCCGGAGGAGGCGTGGCGAGGCGTGGCGAGTGGCGAGGAGTGGGAGGAG 806
OY 721 GATAAATATGAAACAGGAAACCTCCCGGTTGCTCTTCTCTATCTCCCTCTGCT 780
DB 807 CGTGAATATGCAACAGGAACTTCCCGGTTGCTCTTCTCTATCTCCCTCTGCT 866
OY 781 TCTGCTCGAATTAACGCGCACTTCTGCTGTGGAATCAAAAACACCAAGAACATA 840
DB 867 GCTGCTCGAATTAACGCGCACTTCTGCTGTGGAATCAAAAACACCAAGAACATA 926
OY 841 CATGTGATCAAGCACTGTTTAAACAGATGATCACTGGAGCTTNNNNNGGCGGTCT 900
DB 927 CATATGACGAAGCACTGCTCAACTCAAGATTTGTATAGGAGGAGCAATGATCAT 986
OY 901 TCACGTTCTGATGCGTCCCTGTGAACGAGAGGCAACAGTTCCCGGCTCTGATTC 960

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DB 987 GCATATCCCGGAGTGCCTGCTGCGGAGAGAAAGCTCCCGTCTGCGGTAGC 1046
OY 961 AGTACAGCCGCAAGTANCGAGAGCCAGCTGTGCTTAAACGAGGTTTGCATGCCA 1020
DB 1047 GCTCACTCCAGCGTCCGCGGAGAAATGCAAGGATCCCACTACGAAATGACAGCCA 1106
OY 1021 CATGACACCATGCTAGGAGTCCGCAACATTTTGTTCGCCCTTACATAGGAGATGATG 1080
DB 1107 GCTGACTGCTGCTGAGGAGGCTGCTTCTGCTCCGCTATGATGAGTGGGAGATCTG 1166
OY 1081 TGGCGCATATATGATAGTCCCAAGTGTATCATGCTTCGCGGAGATCATCTTGT 1140
DB 1167 CGGATGCTGCTGCTGAGGAGGCTGCTTCTGCTCCGCTATGATGAGTGGGAGATCTG 1226
OY 1141 CCAGACTGTAATGTTTCATCTACCCGGGCAATACGAGGCTGTATG 1192
DB 1227 GCAGGACTGCAACGTCAATCTATCCCGCATTTATCAGGTACCGCATG 1278

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RESULT 10

US-08-191-160-21

Sequence 21, Application US/08191160

Patent No. 6210675

GENERAL INFORMATION:

Applicant: Highfield, Peter Edmund

Applicant: Rodgers, Brian Colin

Applicant: Tedder, Richard Seton

Applicant: Bardara, John Anthony James

Title of Invention: Viral Agent

Number of Sequences: 25

Correspondence Address:

Addressee: Rothwell, Figs, Ernst & Kurz

Street: 1700 K Street

City: Washington

State: D.C.

Country: U.S.A.

Zip: 20006

Computer Readable Form:

Medium Type: Floppy diskette, 5.25 inch, 360 Kb storage

Computer: IBM AT compatible

Operating System: MS-DOS V3.2

Software: Wordperfect 5.0 (DOS text)

Current Application Data:

Application Number: US/08/191,160

Filing Date:

Classification:

Prior Application Data:

Application Number: 07/628,516

Filing Date: 17 DEC 1990

Application Number: UK 89 28 562.1

Filing Date: 18 DEC 1989

Prior Application Data:

Application Number: UK 90 04 414.0

Filing Date: 27 FEB 1990

Prior Application Data:

Application Number: UK 90 04 814.1

Filing Date: 03 MAR 1990

Attorney/Agent Information:

Name: E. Anthony Flagg

Registration Number: 27,195

Reference/Document Number: 1645-103A

Telecommunication Information:

Telephone: (202) 833-5740

Telefax: (202) 833-5744

Information for SEQ ID NO: 21:

Sequence Characteristics:

Length: 216 base pairs

Type: nucleotide with corresponding protein

Strandedness: single

Topology: linear

Molecule Type: cDNA to genomic RNA

Original Source:

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: ORGANISM: human; serum infectious for PT-NANBH
: IMMEDIATE SOURCE:
: LIBRARY: cDNA clones from 5' end of the genome
: FEATURE:
: LOCATION: from 308 to 2116 bp start of the PT-NANBH
: LOCATION: polyprotein
: OTHER INFORMATION: viral structural and non-structural
: OTHER INFORMATION: proteins
: OS-08-191-160-21

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| | | | | |
|-----------------------|-----------------|--------------------|-----------|--------------|
| Query Match | 61.7%; | Score 737.8; | DB 3; | Length 2116; |
| Best Local Similarity | 75.3%; | Pred. No. 3.1e-21; | | |
| Matches 898; | Conservative 4; | Mismatches 290; | Indels 0; | Gaps 0; |

| | | | |
|----|-----|---|-----|
| OY | 1 | CGNACANCCCTCCAGGCGCCCCCTCCCGGAGAGCCATGTCGTGCGGACCGGTGAG | 60 |
| Db | 70 | CGTGAAGCCTCCAGGAGCCCCCTCCCGGAGAGGCATGTGTGTCGCGAAACCGGTGAG | 129 |
| OY | 61 | TACACCCGGAATTCGCGGAGAGACTGGGTCTTTCTTTGGATAAACCACACTATATGCCGCG | 120 |
| Db | 130 | TACACCCGGAATTCGCGGAGAGAGACCGGGGTCTTTCTTTGGATTAACCCGCTCAAGCTTGGA | 189 |
| OY | 121 | CATTGGGGGCTGCCCCCGCAAGACTCTTARCCGAGTAGGCTTGAGTTGCGAAAGGCTTG | 180 |
| Db | 190 | CATTGGGGGCTGCCCCCGCAAGACTCTTARCCGAGTAGGCTTGAGTTGCGAAAGGCTTG | 249 |
| OY | 181 | TGGTACTGCTGATATAGGGTGTCTTGCGAGTGTCGCCGAGAGGTCTGTAACCGGTGACAT | 240 |
| Db | 250 | TGGTACTGCTGATATAGGGTGTCTTGCGAGTGTCGCCGAGAGGTCTGTAAGACCGTGACCAT | 309 |
| OY | 241 | GAGCAACAATTCCTAAACCTCAAGAAAGAAACCAAAACAATACACCGCCGCAAGAGA | 300 |
| Db | 310 | GAGCAACAATTCCTAAACCTCAAGAAAGAAACCAAAACAATACACCGCCGCAAGAGA | 369 |
| OY | 301 | CGTTAAGTTCGCGGGCGGTGCGCAGATCGTTGGCGGAGTAACTTGTCGTCNTGACGAGG | 360 |
| Db | 370 | CGTCAAGTTCGCGGGCGGTGCGCAGATCGTTGGTGAAGTTTAACTGTGTCGCGGAGGGG | 429 |
| OY | 361 | NCCGAGGTGNGTNTATGCGCAACGANGAAGACTNCCGACAGTCCGACGCACTGTGGAG | 420 |
| Db | 430 | CCCCGAGTGGGTGTGTCGCGCGACTTGGAAGACTTCCGAGCGGTGCCAACCTGTGGAAAG | 489 |
| OY | 421 | GCGCCAGCCATTCGCGAAAGATGGAGCAACACTGGCAAGTCCCTGGGGAAGTCCAGAGATA | 480 |
| Db | 490 | GCGCAACCTTATCCCAAGCTTGCGCAGCCCGAGGGGCAAGGACTTGAGCCGAGGTA | 549 |
| OY | 481 | TCCCTGGCCCCCTGTATGGGAACGAGGGGACTCGGGTGGGCGAGGGTGCCTCTGTGCCCCG | 540 |
| Db | 550 | CCCTTGGCCCCCTGTATGGGAACGAGGGGCAATGGGGTGGGCGAGATGGCTCTGTACACCCG | 609 |
| OY | 541 | GGGGCTCCGCGCGCTCATGGGGCCCCCAACGAGCCCCCGGCATTAAGTTCGCGCAACTTGGGTA | 600 |
| Db | 610 | TGGCTCCCGGCGCTCATGGGGCCCCCACTGACCCCCCGCGTAGGGTCGGTATATTGGGTAA | 669 |
| OY | 601 | GGTCATCGATACCCCTCACGTCGCGCTTNNCCGACTCATGGGGTCAATTCGCGTCTTGG | 660 |
| Db | 670 | AATCATCGATACCCCTCACATGGCGCTTCGCGCACTCATAGGGGTAAATTCGCGTCCG | 729 |
| OY | 661 | CGCCCCAGTAGGNGGCGTGGCGCAGAGCTCTCGCGCATGCGCTGAAGTCTTGAAGACGG | 720 |
| Db | 730 | CGCTCCCTTAAGGGGGGCGCTGGCCAGGGGCCCTGGGCGCATGGCGTCCGGGTCTTGAAGGACGG | 789 |
| OY | 721 | GATTAACCTATGAAGAGGGAACCTCCCGGTTGCTCTTATCTACCTCCCTGCTGCT | 780 |
| Db | 790 | CGTGAACCTATGCAACAGGGAATTTACCCGGTGTCTTCTCTATCTTCTCTTGGCTTT | 849 |
| OY | 781 | TCGTCTGAATTTACCGNGCCAGTCTTGTGCTGTGAATCAAAAACAACGAMAACATA | 840 |
| Db | 850 | GCTGTCTGTGTGACCATTCACACTTCGCTTATGAAGTGCGGAACGCTGTCCGGAGACTA | 909 |
| OY | 841 | CATGGGACTTAACGACTGTTCAAACAGTAGCATCACTGGCAGCTTNNGNNCGCGTGCT | 900 |
| Db | 910 | CCATGTCAAGAACGATTGTCTCAACTCAACACATGTGTATGAACACAGCGACATGTATCAT | 969 |

| QY | 901 | TCAGGTCCTGGAGATGCGCTCCCTCTGTAACAGAGAGGGAGAAAGTTCCCGGGGCTGGAATCC | 960 |
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| QY | 901 | TCAGGTCCTGGAGATGCGCTCCCTCTGTAACAGAGAGGGAGAAAGTTCCCGGGGCTGGAATCC | 960 |
| Db | 970 | GCAACACCCCGAGGTGTGTGCCCTGTGTCCGAGAGGTAATTCCTCCCGCTGGTAAGC | 1029 |
| QY | 961 | AGTCACGCCCRACGTAAACGTAGCCGACCTGTGTGCCCTAACCGAGGGGTTCGATCGCA | 1020 |
| Db | 1030 | GCTCATTCCCAACGCTCGCGGCAAGAGACGCAGCATCCCACTCGCAATATCACACCCA | 1089 |
| QY | 1021 | CATCGACACCATCGTAGCGTCCGGAACATTTGTTCTGCCTCTACATPAGGGAGTATG | 1080 |
| Db | 1090 | CGTGAATTTGCTCCTTGGGGCGGCTGCCTTCTGTCCGCTATGTAAGTGGGGAAATCTCTG | 1149 |
| QY | 1081 | TGGCGCATATGATAGCTGCCCAAGTGTCATCGTCTCGCCGAGAGATCACTTGTG | 1140 |
| Db | 1150 | CGAATCTGTTTCTCGCTCTGAGCTGTTCACTTCTCGCCTCGCCGACATCAGACGCT | 1209 |
| QY | 1141 | CCAGAGCTGTACTGTTTCATCTACCCGGGCAATAAACGGGGCTGTATG | 1192 |
| Db | 1210 | ACAGAGCTGCATTTGTTCAATCTATCCCGGACAGTATCAGGTACCGCAATG | 1261 |

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1      RESULT 11
2      / Sequence 3, Application US/08324977
3      / Patent No. 5747339
4      / General Information:
5      / APPLICANT: OKAYAMA, Hiroto
6      / APPLICANT: FUKE, Iao
7      / APPLICANT: MORI, Chisato
8      / APPLICANT: TAKAMIZAWA, Akahisa
9      / APPLICANT: YOSHIDA, Iao
10     / TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
11     / TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
12     / NUMBER OF SEQUENCES: 50
13     / CORRESPONDENCE ADDRESS:
14     / ADDRESS: Armstrong, Westernman, Hattori, McIeland &
15     / ADDRESS: Naughton
16     / STREET: 1725 K St., N.W. Suite 1000
17     / CITY: Washington
18     / STATE: D.C.
19     / COUNTRY: U.S.A.
20     / ZIP: 20006
21     / COMPUTER READABLE FORM:
22     / MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
23     / COMPUTER: IBM PC compatible
24     / OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
25     / SOFTWARE: ASCII
26     / CURRENT APPLICATION DATA:
27     / APPLICATION NUMBER: US/08/324,977
28     / FILING DATE: 18-OCT-1994
29     / PRIOR APPLICATION DATA:
30     / APPLICATION NUMBER: JP 2-167466
31     / FILING DATE: 25-JUN-1990
32     / PRIOR APPLICATION DATA:
33     / APPLICATION NUMBER: JP 2-230921
34     / FILING DATE: 31-AUG-1990
35     / PRIOR APPLICATION DATA:
36     / APPLICATION NUMBER: JP 2-305605
37     / FILING DATE: 09-NOV-1990
38     / PRIOR APPLICATION DATA:
39     / APPLICATION NUMBER: US 08/099,706
40     / FILING DATE: 30-JUL-1993
41     / PRIOR APPLICATION DATA:
42     / APPLICATION NUMBER: US 07/769,996
43     / FILING DATE: 02-OCT-1991
44     / PRIOR APPLICATION DATA:
45     / APPLICATION NUMBER: US 07/635,451
46     / FILING DATE: 28-DEC-1990
47     / ATTORNEY/AGENT INFORMATION:
48     / NAME: Stevens-Smith, Theresa M.
49     / REGISTRATION NUMBER: 36,281
50     / REFERENCE/DOCKET NUMBER: 900703D

```

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-08-324-977-3

Query Match 61.2%; Score 731.4; DB 2; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2,66-219;
 Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

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QY 1 CGNACANCTCCAGGCCCCCTCCCGGAGAGCATAGTGTCTGCGGAAACGGGTAG 60
DB 95 CGTGAAGCTTCAGAACCCCTCCCGGAGAGCATATGTGTCTGCGGAAACGGGTAG 154
QY 61 TACACCGAATTCGCGGAGAGCATGAGTCTTCTTGTGATTAACCACTTATGCCCCG 120
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DB 455 CCGCAAGTGGGTGCGCGCGCCCGCAAGAAAGCTTCCGAGCGTCCGCAACCTCGAGAG 514
QY 421 GCGCCAGCCCATCCGAAAGATCGAGNCACTGAGCAAGTCTCTGAGGAGCTCCAGATA 480
DB 515 GCGCAAGCTATCTCCCAAGGCTCGCGCGCCGAGGAGAGAGCTTGGGCTCAACCCGGGTA 574
QY 481 TCCCTGGCCCTGTATGGAAGCAAGGCGCTCGGGTGGGAGAGGTTGCTTCCCTCCG 540
DB 575 CCGTTGGCTCTCTATGCAATGAGGCGCTTGAAGGTGGGAGAGGCTCTCTGCAACCG 634
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DB 635 GGGGCTCCGCGCGCTGATGAGGCGCCCAAGGAGCCCGGCGCATAGGTGCGCAATTGGGTA 694
QY 601 GGTCAATGATACCTTCACGTCGCTTTCGCACTCATGAGGATCAATTCCTGCTGG 660
DB 695 GGTCAATGATACCTTCACGTCGCTTTCGCACTCATGAGGATCAATTCCTGCTGG 754
QY 661 CGCCCAAGTAGGAGCGTCCGCAAGAGCTCTCGCGCATGCGGTGAGAGTCTTGGAGAGCG 720
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DB 875 GCTGTCCGCTGACCAACCCAGCTTCGCTTAAGAGATGACAAACGTGTCCGGATATA 934
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DB 995 GCATATCTCTGGGTGCGGTGCTGCTGCTTCCGGAAGGCAACTCTCCGCTCTGGGTAGC 1054
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DB 1175 CGGATCTGTTTCTCGTCTCTCAAGCTGTTCACCTTCTCGGCTCGCGGAGATGTGACAT 1234
QY 1141 CGAGCTGTATCTGTTTCATCTACCGGCGCCACATTAACGGGGCTCGTATG 1192
DB 1235 ACAGAGCTGTATCTGTTTCATCTACCGGCGCCATGATGCGGATACCGGTATG 1286

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RESULT 12
 US-08-384-616-3
 ; Sequence 3, Application US/08384616
 ; Patent No. 5847101
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAYAMA, Hiroto
 ; APPLICANT: FUKE, Iwao
 ; APPLICANT: MORI, Chisato
 ; APPLICANT: TAKAMIZAWA, Akahisa
 ; APPLICANT: YOSHIDA, Iwao
 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 ; TITLE OF INVENTION: cDNA AND ANTIGEN POLYPEPTIDE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Armstrong, Westerman, Hatlori, Mclelland &
 ; ADDRESSEE: Naughton
 ; STREET: 1725 K St. N.W. Suite 1000
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20006
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 ; SOFTWARE: ASCII
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/384,616
 ; FILING DATE:
 ; CLASSIFICATION: 424
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/769,996
 ; FILING DATE: 02-OCT-1991
 ; APPLICATION NUMBER: JP 2-167466
 ; FILING DATE: 25-JUN-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-230921
 ; FILING DATE: 31-AUG-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 2-305605

FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: Stevens-Smith, Theresa M.
 REGISTRATION NUMBER: 36,281
 REFERENCE/DOCKET NUMBER: 900703B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 TELEX: 440142
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-08-384-616-3

Query Match 61.2%; Score 731.4; DB 2; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2,6e-219;
 Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

QY 1 CGNACANCTCCAGGCCCCCTCCCGGAGAGCCATAGTGTCTGGGAAACGGGTAG 60
 DB 95 CGTGAGCCTCAGAGCCCCCTCCCGGAGAGCCATAGTGTCTGGGAAACGGGTAG 154
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 QY 1141 CCAGACTGTAACTGTTCCATCTACCGGGGCACATACGAGGCGCTGTATG 1192
 DB 1235 ACAGAGCTTAACGTCAATTATTCGCGGCATGTGCGGATACCGATG 1286

RESULT 13
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 Sequence 3, Application US/08904686A
 Patent No. 5998130
 GENERAL INFORMATION:
 APPLICANT: OKAYAMA, Hiroto
 APPLICANT: FUKE, Isao
 APPLICANT: MORI, Chisato
 APPLICANT: TAKAMIZAWA, Akahisa
 APPLICANT: YOSHIDA, Iwao
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
 NUMBER OF SEQUENCES: 50
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Armstrong, Westerman, Hattori, McIeland &
 STREET: 1725 K St. N.W. Suite 1000
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686A
 FILING DATE: 01-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994

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PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: McLeod, Le-Nhung
REGISTRATION NUMBER: 31,541
REFERENCE/DOCKET NUMBER: 900703G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
NAME/KEY: misc feature
LOCATION: 1..1499
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OTHER INFORMATION: ID NO: 1"
US-08-904-686A-3

Query Match      61.2% Score 731.4; DB 2; Length 1499;
Best Local Similarity 75.0%; Pred. No. 2,6e-219;
Matches 894; Conservative 4; Mismatches 294; Indels 0; Gapd 0;

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721 GATAAATATGAAACAGGGAACCTCCCGGTTGCTCTTCTCTATCTCTCCCTCTGCTCT 780
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RESULT 14
US-09-315-850-3
; Sequence 3, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Ieao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, McLeod &
; ADDRESS: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.

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COUNTRY: U.S.A.
 ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 in, 1.44MB
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
 SOFTWARE: ASCII
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/315,850
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/904,686
 FILING DATE: 01-AUG-1997
 APPLICATION NUMBER: US 08/324,977
 FILING DATE: 18-OCT-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-167466
 FILING DATE: 25-JUN-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-230921
 FILING DATE: 31-AUG-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 2-305605
 FILING DATE: 09-NOV-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/099,706
 FILING DATE: 30-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/769,996
 FILING DATE: 02-OCT-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/635,451
 FILING DATE: 28-DEC-1990
 ATTORNEY/AGENT INFORMATION:
 NAME: McLeiland, Le-Nhung
 REGISTRATION NUMBER: 31,541
 REFERENCE/DOCKET NUMBER: 900703G
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2930
 TELEFAX: (202) 887-0357
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1499 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA from genomic RNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 333..1499
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..1499
 OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ
 OTHER INFORMATION: ID NO: 1"
 US-09-315-850-3

Query Match 61.2%; Score 731.4; DB 3; Length 1499;
 Best Local Similarity 75.0%; Pred. No. 2,6e-219;
 Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;

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 DB 95 CGTGACGCTCCAGAGCCCCCTCCGAGAGAGCATATGATGCGGAAACCGGTAG 154
 QY 61 TACACCGAATTCGCGGAGAGACTGGTCTTTTGGATTAACCACTCTATGCCGAGC 120
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 QY 241 GAGCAAAATCTTAACTCTAAAGAAAACCTAAAGAAACCTAAACCGGCGCCACAGGA 300
 DB 335 GAGCAAAATCTTAACTCTAAAGAAAACCTAAAGAAACCTAAACCGGCGCCACAGGA 394
 QY 301 CGTTAAGTTCCGGGCGGTGCGAGATCGTTGGGCGAGTATCTGTTGCCNTGCGAGG 360
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 QY 421 GCGCAGCCCATCCCGAAAGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
 DB 515 GCGCAGCCCATCCCGAAAGATCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 574
 QY 481 TCCCTGCGCCGCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
 DB 575 CCTTGGCTCTCTATGAG 634
 QY 541 GAGCTCCCGCCGTCATAG 600
 DB 635 GAGCTCCCGCCGTCATAG 694
 QY 601 GGTATGATACCTCTACAGTGGGTTTCCGAGCTCTATGAGAGAGAGAGAGAGAGAG 660
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 QY 661 GCGCCAGTAG 720
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 QY 841 CATGTGATACAG 900
 DB 935 TCATGTACAG 994
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 DB 1235 ACAGGATGTAATCTGTTCACTTACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1286

RESULT 15
 US-08-324-977-1
 ; Sequence 1, Application US/08324977
 ; Patent No. 5747339

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GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hiroto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: Armstrong, Westerman, Hattori, McJeland &
ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9416 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..9362
US-08-324-977-1
Query Match 61.2%; Score 731.4; DB 2; Length 9416;
Best Local Similarity 75.0%; Pred. No. 7,9e-219;
Matches 894; Conservative 4; Mismatches 294; Indels 0; Gaps 0;
QY 1 GSNACANCTCCAGGCCCCCTCCCGGAGAGCATAGTGTCTGGGGAACGGGTAG 60
Db 95 CGTGACGCTTCAGAGACCCCTCCCGGAGAGCATAGTGTCTGGGGAACGGGTAG 154
QY 61 TACACCGGAATTGCCGAGACGACCGGGTCTTTCTTGATTAACCCACTTATGCCCGC 120

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Db 935 TCATGTACAGAACCACTGCTTCAACAGCAAGATTTGTATGAGGACGAGCTTGATCAT 994
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Fri Jan 20 09:52:47 2006

us-08-836-075b-75.rn1

Page 16

Search completed: January 11, 2006, 10:56:47
Job time : 292.369 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-77

Perfect score: 340

Sequence: 1 atccacagctcactgaagaag.....acgagacaacctgagacct 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 5 | 249.4 | 73.4 | 340 | 3 | US-08-441-970-16 |
| 6 | 246.4 | 72.5 | 340 | 3 | US-08-441-971-15 |
| 7 | 246.4 | 72.5 | 340 | 3 | US-08-221-653-15 |
| 8 | 246.4 | 72.5 | 340 | 3 | US-08-442-144A-15 |
| 9 | 246.4 | 72.5 | 340 | 3 | US-08-441-970-15 |
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| 13 | 241.6 | 71.1 | 340 | 3 | US-08-442-144A-14 |
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| 30 | 216.6 | 63.7 | 9511 | 2 | US-07-925-695-6 | Sequence 6, Appl |
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| 34 | 196.4 | 57.8 | 340 | 3 | US-08-836-075A-105 | Sequence 105, App |
| 35 | 187.2 | 55.1 | 340 | 3 | US-08-836-075A-99 | Sequence 99, Appl |
| 36 | 164.4 | 48.4 | 340 | 3 | US-08-836-075A-57 | Sequence 57, Appl |
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| 38 | 163.2 | 48.0 | 340 | 3 | US-08-441-971-11 | Sequence 11, Appl |
| 39 | 163.2 | 48.0 | 340 | 3 | US-08-221-653-11 | Sequence 11, Appl |
| 40 | 163.2 | 48.0 | 340 | 3 | US-08-442-144A-11 | Sequence 11, Appl |
| 41 | 163.2 | 48.0 | 340 | 3 | US-08-441-970-11 | Sequence 11, Appl |
| 42 | 161.6 | 47.5 | 340 | 3 | US-08-441-971-12 | Sequence 12, Appl |
| 43 | 161.6 | 47.5 | 340 | 3 | US-08-221-653-12 | Sequence 12, Appl |
| 44 | 161.6 | 47.5 | 340 | 3 | US-08-442-144A-12 | Sequence 12, Appl |
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ALIGNMENTS

RESULT 1
US-08-836-075A-77
Sequence 77, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
TITLE OF INVENTION: AGENTS
CORRESPONDENCE ADDRESSES:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-77

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 5.3e-87;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATCCACAGTCACTGAAAGAGACATCAGATGTAAGAGTCCGTTATCTGTTCACT 60
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QY 121 CATGCAGAACAGCAGAGGGGCAATCTCTGGGATACAGGCGCTGCCGCGCAGGGGTGCT 180
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QY 241 CCGGGCATTTGTTGCAACCCACATGCTGGTGTGTGCGCAGACCTGTGTCATCTCAGA 300
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RESULT 2

US-08-441-971-16

Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKTEL
INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5aarg6

US-08-441-971-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.8e-61;
Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

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RESULT 3

US-08-221-653-16

Sequence 16, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441
 TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5arg6
 US-08-221-653-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
 Best Local Similarity 83.5%; Pred. No. 2.8e-61;
 Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAAAGACATCAGAGTTGAAGAGTCCGTTATCTGCTGTTCACTT 61
 DB 2 TCTACAGTACGAGAGGAGACATCAGACCGAGATCCATCTATCTGCTGTTCACTG 61
 QY 62 CCCGAGAGGCCCGAGCTGCATACACTAATACTGAGAGGCTGTACGTTGAGGTCCT 121
 DB 62 CCGAGAGAGGCTCGAATCTGCATACACTAATACTGAGAGGCTGTACGTTGAGGTCCT 121
 QY 122 ATGCAAGAAAGAGAGGAGGAAATCTGCGGATACAGGCGCTGCCGCCAGCGGGTGTCTC 181
 DB 122 ATGCAAAAGAGAGGAGGAAATCTGCGGATACAGGCGCTGCCGCCAGGAGTGTCTC 181
 QY 182 ACCACTAGCATGGGGAATCTCTACATGCTACTTGAAGGCCGAGGCGCTGCAGAGGCC 241
 DB 182 ACCACAGATGGGTAAACACTCAGCTGTACTGTAAGGCTTAAGCGGCAATGTACGCC 241
 QY 242 GCGGCGATTGTTGACCCCAATGCTGTGTGTGCGGAGCAGCCTGTGTCATCTTCAGAG 301
 DB 242 GCGGCGATTGTTGCCCCCAATGTTGTGTGTGCGGAGCAGCCTGTGTCATCTTCAGAG 301
 QY 302 AGTCAGGGGACTGAGAGGAGCGAAGAACACTGAGAGCT 340
 DB 302 AGTCAGGGGCTGAGAGGAGATGAGCGAAACTGAGAGCT 340

RESULT 4

US-08-442-144A-16

Sequence 16, Application US/08442144A
 Patent No. 6214583
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 APPLICANT: Eileen Beall
 APPLICANT: Bruce Irvine
 APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdea
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF SEQUENCES: 148
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 Inch
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows NT
 SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442,144A
 FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/221,653
 FILING DATE: APRIL 1, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Doreen Yalco Irujillo
 REGISTRATION NUMBER: 35,719
 REFERENCE/DOCKET NUMBER: CHIR-0121
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 TELEX:
 INFORMATION FOR SEQ ID NO: 16:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 Nucleotides
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5arg6
 US-08-442-144A-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
 Best Local Similarity 83.5%; Pred. No. 2.8e-61;
 Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCACAGTCACTGAAAGACATCAGAGTTGAAGAGTCCGTTATCTGCTGTTCACTT 61
 DB 2 TCTACAGTACGAGAGGAGACATCAGACCGAGATCCATCTATCTGCTGTTCACTG 61
 QY 62 CCCGAGAGGCCCGAGCTGCATACACTAATACTGAGAGGCTGTACGTTGAGGTCCT 121
 DB 62 CCGAGAGAGGCTCGAATCTGCATACACTAATACTGAGAGGCTGTACGTTGAGGTCCT 121
 QY 122 ATGCAAGAAAGAGAGGAGGAAATCTGCGGATACAGGCGCTGCCGCCAGGAGTGTCTC 181
 DB 122 ATGCAAAAGAGAGGAGGAAATCTGCGGATACAGGCGCTGCCGCCAGGAGTGTCTC 181
 QY 182 ACCACTAGCATGGGGAATCTCTACATGCTACTTGAAGGCCGAGGCGCTGCAGAGGCC 241
 DB 182 ACCACAGATGGGTAAACACTCAGCTGTACTGTAAGGCTTAAGCGGCAATGTACGCC 241
 QY 242 GCGGCGATTGTTGACCCCAATGCTGTGTGTGCGGAGCAGCCTGTGTCATCTTCAGAG 301
 DB 242 GCGGCGATTGTTGCCCCCAATGTTGTGTGTGCGGAGCAGCCTGTGTCATCTTCAGAG 301
 QY 302 AGTCAGGGGACTGAGAGGAGCGAAGAACACTGAGAGCT 340
 DB 302 AGTCAGGGGCTGAGAGGAGATGAGCGAAACTGAGAGCT 340

RESULT 5

US-08-441-970-16

Sequence 16, Application US/08441970
 Patent No. 6297370
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 2.8e-61;
Matches 283; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGAAAGAGACATCAGAGTGAAGAGCGGTTATCTGTCCTGTTCACTT 61
DB 2 TCTACAGTCACTGAAAGAGACATCAGAGTGAAGAGCGGTTATCTGTCCTGTTCACTG 61
QY 62 CCCGAGAGAGCCCGAGCTGCCATACACTCACTAAGTGAAGGCTGTACGTTGGAGGTGCC 121
DB 62 CCGAGAGAGGCTCGAAGTGCATACACTCACTAAGTGAAGGCTGTACGTTGGAGGAGGCC 121
QY 122 ATGCAAGACGCAAGAGGGGCAATCTCGGATACAGGCGCTCGCGCCAGCGGGGTGCTC 181
DB 122 ATGCAAAACGCAAGAGGGCAATCTCGGATACAGGCGCTCGCGCCAGCGGGGTGCTC 181
QY 182 ACCACTAGCATGGGATATCTTCACATGCTACTGAAGGCCAGAGGGGCTGACAGGGCC 241
DB 182 ACCACGAGCATGGGATATCTTCACATGCTACTGAAGGCTGAAGGGGATGTAAAGCC 241
QY 242 GCGGCAATGTTGCAACCAATGCTGTGTGTGGCGAGCACTGTGTCATCTCAGAG 301
DB 242 GCGGCAATGTTGTCACCAATGCTGTGTGTGGCGAGCACTGTGTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGAGAGAACACCTGAGACTT 340
DB 302 AGTCAGGGGCTCGAGAGAGATGAGCAAACTTGAAGACT 340

RESULT 6
US-08-441-971-15
Sequence 15, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-971-15

Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 2 TCCACAGTCACTGAAAGAGACATCAGAGTGAAGAGCGGTTATCTGTCCTGTTCACTT 61
DB 2 TCTACAGTCACTGAAAGAGACATCAGAGTGAAGAGCGGTTATCTGTCCTGTTCACTG 61
QY 62 CCCGAGAGAGCCCGAGCTGCCATACACTCACTAAGTGAAGGCTGTACGTTGGAGGTGCC 121
DB 62 CCGAGAGAGGCGCGAAGTGCATACACTCACTAAGTGAAGGCTGTACGTTGGAGGAGGCC 121
QY 122 ATGCAAGACGCAAGAGGGGCAATCTCGGATACAGGCGCTCGCGCCAGCGGGGTGCTC 181
DB 122 ATGCAAAACGCAAGAGGGGCAATCTCGGATACAGGCGCTCGCGCCAGCGGGGTGCTC 181
QY 182 ACCACTAGCATGGGATATCTTCACATGCTACTGAAGGCCAGAGGGGCTGACAGGGCC 241
DB 182 ACCACGAGCATGGGATATCTTCACATGCTACTGAAGGCTGAAGGGGATGTAAAGCC 241
QY 242 GCGGCAATGTTGCAACCAATGCTGTGTGTGGCGAGCACTGTGTCATCTCAGAG 301
DB 242 GCGGCAATGTTGTCACCAATGCTGTGTGTGGCGAGCACTGTGTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGAGAGAACACCTGAGA 337
DB 302 AGTCAGGGGCTCGAGAGAGATGAGCGGAACCTGAGA 337

RESULT 7
US-08-221-653-15
Sequence 15, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/861,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAAGACATCAGAGTTGAAGAGTCCGTTATCTGCTGTTCACTT 61
DB 2 TCTACAGTCAACAGAGAGGAGCAGACCGAGAGTCCATCTATCTGCTGCTCAGTG 61
QY 62 CCCGAGAGGCCCGAGCTGCCATCACTCACTCACTGAGAGGCTGTACGTGGAGGTC 121
DB 62 CCGTGAAGAGGCCCGAAGCTCTATACACTGACTGAGAGACTGTACGTAGGGGGGCC 121
QY 122 ATGCAAGAACAGAGGGGCAATCCGCGGATACAGGCGCTGCGCGCCGCGGGTGTCT 181
DB 122 ATGCAAGAACAGAGGGGCAATCCGCGGATACAGGCGCTGCGCGCCGCGGGTGTCT 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCAGGCGGCTGCGAGGCC 241
DB 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCAGGCGGCTGCGAGGCC 241
QY 242 GCGGGCATTTGTTGACCCCAATGCTGTGTGTGTGGAGCAGACTGTGCTCATCTCAG 301
DB 242 GCGGGCATTTGTTGCTCCCAATGTTGTGTGTGTGGAGCAGACTGTGCTCATCTCAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTGAGA 337
DB 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTGAGA 337

RESULT 8
US-08-442-144A-15
Sequence 15, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Reall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Ordea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yatcho Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAAGACATCAGAGTTGAAGTCCGTTATCTGCTGTTCACTT 61
DB 2 TCTACAGTCAACAGAGAGGAGCAGACCGAGAGTCCATCTATCTGCTGCTCAGTG 61
QY 62 CCCGAGAGGCCCGAGCTGCCATCACTCACTCACTGAGAGGCTGTACGTGGAGGTC 121
DB 62 CCGTGAAGAGGCCCGAAGCTCTATACACTGACTGAGAGACTGTACGTAGGGGGGCC 121
QY 122 ATGCAAGAACAGAGGGGCAATCCGCGGATACAGGCGCTGCGCGCCGCGGGTGTCT 181
DB 122 ATGCAAGAACAGAGGGGCAATCCGCGGATACAGGCGCTGCGCGCCGCGGGTGTCT 181
QY 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCAGGCGGCTGCGAGGCC 241
DB 182 ACCACTAGCATGGGGAATCTCTACATGCTCTTGAAGGCCAGGCGGCTGCGAGGCC 241
QY 242 GCGGGCATTTGTTGACCCCAATGCTGTGTGTGTGGAGCAGACTGTGCTCATCTCAG 301
DB 242 GCGGGCATTTGTTGCTCCCAATGTTGTGTGTGTGGAGCAGACTGTGCTCATCTCAG 301
QY 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTGAGA 337
DB 302 AGTCAGGGGACTGAGAGGAGCAGAGAACACTGAGA 337

RESULT 9
US-08-441-970-15
; Sequence 15, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-May-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-May-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: m85110
; US-08-441-970-15
Query Match 72.5%; Score 246.4; DB 3; Length 340;
Best Local Similarity 83.3%; Pred. No. 2e-60;
Matches 280; Conservative 0; Mismatches 56; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAGAGACATCAGATTGAGAGCGCTTATCTGCTCTTCACCT 61
DB 2 TCTACAGTCAACAAGAGGACATCAGAACCGAGAGTCACTATCTGCTCTCTCACTG 61
QY 62 CCCGAGAGGCGCCGAGCTGCATATCACTCACTAAGAGGCTGTACGTGGAGGTGCC 121
DB 62 CCGAGAGAGGCCCGAAGTGTATCACTCACTGAGAGACTGTACGTAGAGGGGCC 121
QY 122 ATGCAAGACGACGAGGGGCAATCTCTCGGATACAGGCGCTGCCGCCAGCGGGGTGCTC 181
DB 122 ATGACAAACGACGAGGGGCAATCTCTCGGATACAGGCGCTGCCGCCAGCGGGGTGCTC 181
QY 182 ACCACTAGCATGTGGGAATATCTCACTGCTATGTGAAGGCCAGGCGGCTGAGGGCC 241
DB 182 ACCACGACGATGGGCAACAGCTCACTGCTACGTGAAGCCGAGAGCGGGGTGAAGGCC 241
QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
DB 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGGCGACGACCTGTCTCATCTCAGAG 301

DB 242 GCGGGCATTTGTCCTCCACCATGTTGGTGTGGCGACGACCTGTGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGACGAGAACACTTGAGA 337
DB 302 AGTCAGGGGCTCGAGGAAGATGACCGGAACCTTGAGA 337
RESULT 10
US-09-878-281A-145
; Sequence 145, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 145
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-145
Query Match 71.2%; Score 242; DB 3; Length 340;
Best Local Similarity 82.2%; Pred. No. 3.5e-59;
Matches 278; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
QY 2 TCCACAGTCACTGAAGAGACATCAGAGTTGAAGTCCGTTTATCTGCTCTTCACCT 61
DB 2 TCAACGCTCAGGAGAGGACATCAGAACTGAGAGTCAATATACCTTGCTTGCTTTA 61
QY 62 CCCGAGAGGCGCCGAGCTGCCATATCACTCACTAAGAGGCTGTAGTGGAGGTGCC 121
DB 62 CCCGAGAGGACGAGCTGCCATATCACTCACTGAGAGGCTTTAGTGGAGGTGCC 121
QY 122 ATGCAAGACGACGAGGGGCAATCTCTCGGATACAGGCGCTGCCGCCAGCGGGGTGCTC 181
DB 122 ATGCTAAACGACGAGGGGCAATCTCTCGGATACAGGCGCTGCCGCCAGCGGGGTGCTC 181
QY 182 ACCACTAGCATGTGGGAATATCTCTCACTGCTATGTGAAGGCCAGGCGGCTGACGGCC 241
DB 182 ACCACTAGCATGTGGGAATATCTCTCACTGCTATGTGAAGGCCAGGCGGCTGACGGCC 241
QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
DB 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGGCGACGACCTGTCTCATCTCAGAG 301
QY 302 AGTCAGGGGACTGAGAGGAGACGAGAACACTTGAGA 339
DB 302 AGTCAGGGGACCGAGAGGAGACGAGAACACTTGAGA 339
RESULT 11
US-08-441-971-14
; Sequence 14, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacke, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch

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COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-441-971-14
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Query Match 71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
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QY 2 TCACAGTCATCTGAAAGAGACATCAGATTGAAGATCCGTTATCTGTCCTTCACCTT 61
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DB 2 TCTACAGTACCTGTAAGAGACATCAGATCTAGAGATCCATCTACAGATCTGTTACTG 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 62 CCCGAGAGAGCCCGAGCTGCCATACCTCACTAAGAGAGGCTGTACGTGGAGGTCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 62 CCCGAGAGAGCTCGAATCTGTATACCTACCTGAGAGATTAACGTAAGGGGGCCC 121
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 122 ATGCAGAAACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGGGTCTC 181
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DB 122 ATGCAGAAACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGTCTC 181
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QY 182 ACCACTAGAGGGGGAATCTCTCAATGCTACTTGAAGGCCCAAGGGCGCTGCAAGGCC 241
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DB 182 ACCACTAGAGGGGGAATCTCTCAATGCTACTTGAAGGCCCAAGGGCGCTGTAAGGCC 241
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QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGCGAGACCTGCTCTCATCTCAGAG 301
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DB 242 GCGGGCATTTGTCCTCCACCAATGCTGTGTGTGCGAGACCTGCTCTCATCTCAGAG 301
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QY 302 AGTCAAGGGGCTGAGAGAGGAGCGAGAACCACTGAGA 337
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 302 AGTCAAGGGGCTGAGAGAGGAGCGAGAACCACTGAGA 337
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RESULT 12
US-08-221-653-14

Sequence 14, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.

```
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-221-653-14
```

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Query Match 71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;
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QY 2 TCACAGTCATCTGAAAGAGACATCAGATTGAAGATCCGTTATCTGTCCTTCACCTT 61
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DB 2 TCTACAGTACCTGTAAGAGACATCAGATCTAGAGATCCATCTACAGATCTGTTACTG 61
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 62 CCCGAGAGAGCCCGAGCTGCCATACCTCACTAAGAGAGGCTGTACGTGGAGGTCC 121
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DB 62 CCCGAGAGAGCTCGAATCTGTATACCTACCTGAGAGATTAACGTAAGGGGGCCC 121
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QY 122 ATGCAGAAACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGGGTCTC 181
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DB 122 ATGCAGAAACGCAAGGGGCAATCTCGGATACAGGCGCTGCCGCCAGCGGTCTC 181
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QY 182 ACCACTAGAGGGGGAATCTCTCAATGCTACTTGAAGGCCCAAGGGCGCTGCAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 182 ACCACTAGAGGGGGAATCTCTCAATGCTACTTGAAGGCCCAAGGGCGCTGTAAGGCC 241
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 242 GCGGGCATTTGTCACCCCAATGCTGTGTGTGCGAGACCTGCTCTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 242 GCGGGCATTTGTCCTCCACCAATGCTGTGTGTGCGAGACCTGCTCTCATCTCAGAG 301
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 302 AGTCAAGGGGCTGAGAGAGGAGCGAGAACCACTGAGA 337
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 302 AGTCAAGGGGCTGAGAGAGGAGCGAGAACCACTGAGA 337
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RESULT 13
US-08-442-144A-14

Sequence 14, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha

```

APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSER: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-442-144A-14

```

```

Query Match      71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

```

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QY 2 TCACAGTCACTGAAAGAGACATCAGAGTTGAAGATCCGTTTATCTGTCTCTTCACTT 61
   |||||
DB 2 TCTACAGTCACTGAAAGAGACATCAGAGTTGAAGATCCGTTTATCTGTCTCTTCACTG 61
   |||||
QY 62 CCCGAGAGAGCCCGAGAGTGCATACCTCACTCACTGAGAGGCTGTACGTGGAGGTCCC 121
   |||||
DB 62 CCCGAGAGAGCTGAACTGCTATACCTCACTGAGAGGCTGTACGTGGAGGTCCC 121
   |||||
QY 122 ATGCAAGACGCAAGGGGCAATCTGTGGATACAGGGGCTGCGGCAAGGGGTGCTC 181
   |||||
DB 122 ATGCAAGACGCAAGGGGCAATCTGTGGATACAGGGGCTGCGGCAAGGGGTGCTC 181
   |||||
QY 182 ACCACTGATGAGGGAATACCTCACTGCTATGTAAGGCCGAGGCGGCTGCAAGGGCC 241
   |||||
DB 182 ACCACTGATGAGGGAATACCTCACTGCTATGTAAGGCCGAGGCGGCTGTAAGGCC 241
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QY 242 GCGGGGATTTGTTGCTCCACCATGCTGTGTGGCGAGCACTGTGTCTCATCTCAGAG 301
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DB 242 GCGGGGATTTGTTGCTCCACCATGCTGTGTGGCGAGCACTGTGTCTCATCTCAGAG 301
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QY 302 AGTCAAGGGGACTGAGAGGAGCAGAGCAACCTTGAGA 337
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DB 302 AGTCAAGGGGACTGAGAGGAGCAGAGCAACCTTGAGA 337
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RESULT 14
US-08-441-970-14
Sequence 14, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg8
US-08-441-970-14

```

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Query Match      71.1%; Score 241.6; DB 3; Length 340;
Best Local Similarity 82.4%; Pred. No. 4.5e-59;
Matches 277; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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QY 2 TCACAGTCACTGAAAGAGACATCAGAGTTGAAGATCCGTTTATCTGTCTCTTCACTT 61
   |||||
DB 2 TCTACAGTCACTGAAAGAGACATCAGAGTTGAAGATCCGTTTATCTGTCTCTTCACTG 61
   |||||
QY 62 CCCGAGAGAGCCCGAGAGTGCATACCTCACTCACTGAGAGGCTGTACGTGGAGGTCCC 121
   |||||
DB 62 CCCGAGAGAGCTGAACTGCTATACCTCACTGAGAGGCTGTACGTGGAGGTCCC 121
   |||||
QY 122 ATGCAAGACGCAAGGGGCAATCTGTGGATACAGGGGCTGCGGCAAGGGGTGCTC 181
   |||||
DB 122 ATGCAAGACGCAAGGGGCAATCTGTGGATACAGGGGCTGCGGCAAGGGGTGCTC 181
   |||||
QY 182 ACCACTGATGAGGGAATACCTCACTGCTATGTAAGGCCGAGGCGGCTGCAAGGGCC 241
   |||||
DB 182 ACCACTGATGAGGGAATACCTCACTGCTATGTAAGGCCGAGGCGGCTGTAAGGCC 241
   |||||
QY 242 GCGGGGATTTGTTGCTCCACCATGCTGTGTGGCGAGCACTGTGTCTCATCTCAGAG 301
   |||||
DB 242 GCGGGGATTTGTTGCTCCACCATGCTGTGTGGCGAGCACTGTGTCTCATCTCAGAG 301
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Qy 302 AGTCAGGGGACTGAGAGGGGACGAGAACACCTGAGA 337
Db 302 AGTCAGGGGCTGAGAGGAGGACGAGAACCTGAGA 337

RESULT 15

US-07-925-695-4
Sequence 4, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 70.7%; Score 240.4; DB 2; Length 2693;
Best Local Similarity 82.0%; Pred. No. 1.7e-56;
Matches 277; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

Qy 2 TCCACAGTCTGTAAGAGCATCAGAGTTCAGAGTCCGTTTATCTGTCTCTGTTCACTT 61
Db 2335 TCAACCGTCACTGAGAGGAGCATCAGAGTTCATATATCGGGCTTGTTCCTTG 2394
Qy 62 CCCGAGAGGCCCCGAGCTGCTCATACCTCACTAACTGAGAGGCTGTACGTGGAGTCC 121
Db 2395 CCCGAGAGGCCCCACACTGCCATACCTCACTGAGAGCTTACGTGGAGAGGCC 2454
Qy 122 ATGCAAGACAGAGAGGGGCAATCTCGGGATACAGGGCTGCCGCGCCAGCGGGGTGCTC 181
Db 2455 ATGTTCAACAGAGAGGCGCAAGCTCGCGGCTTACAGGCTTGC CGGCCAGCGGGGTGCTT 2514
Qy 182 ACCACTAGCATGGGGAATATCTCTCATCTACTTGAAGGCCAGGCGGCTTGCAAGGCC 241

Db 2515 ACCACTAGCATGGGGAACACCATCATGCTATGTGAAGCCTTACGGGCTGTAGGCT 2574
Qy 242 GCGGGCATTTGTTGACCCCAATGCTGTGTGGGAGGACCGTGTGTCATCTCAGAG 301
Db 2575 GCAGGGATTAATGCGCCCAATGCTGTGTGGGAGGACCTTGTGTATCTCAGAG 2634
Qy 302 AGTCAGGGGACTGAGAGGGACGAGAACACCTGAGACC 339
Db 2635 AGCCAGGGGACCGAGAGGAGGAGCGGACCTGAGAGC 2672

Search completed: January 11, 2006, 10:56:48
Job time : 83.331 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-79

Perfect score: 340

Sequence: 1 ctccacagctcagcgagagggg.....acgagcgaactcgtgagctc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents NA:*

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2: /cgn2_6/ptodata/1/ina/5/COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A/COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B/COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H/COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS/COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP/COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE/COMB.seq:*
9: /cgn2_6/ptodata/1/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 340 | 100.0 | 340 | 3 | US-08-836-075A-79 |
| 2 | 264.8 | 77.9 | 340 | 3 | US-08-836-075A-71 |
| 3 | 253.6 | 74.6 | 340 | 3 | US-08-836-075A-73 |
| 4 | 252 | 74.1 | 2693 | 2 | US-07-925-695-4 |
| 5 | 252 | 74.1 | 9589 | 2 | US-07-925-695-1 |
| 6 | 252 | 74.1 | 9589 | 2 | US-07-925-695-2 |
| 7 | 248.4 | 73.1 | 340 | 3 | US-08-441-971-13 |
| 8 | 248.4 | 73.1 | 340 | 3 | US-08-221-653-13 |
| 9 | 248.4 | 73.1 | 340 | 3 | US-08-442-144A-13 |
| 10 | 248.4 | 73.1 | 340 | 3 | US-08-441-970-13 |
| 11 | 245.6 | 72.2 | 340 | 3 | US-09-878-281A-145 |
| 12 | 242.4 | 71.3 | 340 | 3 | US-08-441-971-15 |
| 13 | 242.4 | 71.3 | 340 | 3 | US-08-221-653-15 |
| 14 | 242.4 | 71.3 | 340 | 3 | US-08-442-144A-15 |
| 15 | 242.4 | 71.3 | 340 | 3 | US-08-441-970-15 |
| 16 | 238.8 | 70.2 | 340 | 3 | US-08-441-971-16 |
| 17 | 238.8 | 70.2 | 340 | 3 | US-08-221-653-16 |
| 18 | 238.8 | 70.2 | 340 | 3 | US-08-442-144A-16 |
| 19 | 238.8 | 70.2 | 340 | 3 | US-08-441-970-16 |
| 20 | 236.4 | 69.5 | 340 | 3 | US-08-836-075A-69 |
| 21 | 234 | 68.8 | 340 | 3 | US-09-878-281A-215 |
| 22 | 233.6 | 68.7 | 9511 | 2 | US-07-925-695-6 |
| 23 | 233.6 | 68.7 | 9511 | 2 | US-07-925-695-7 |
| 24 | 232.4 | 68.4 | 340 | 3 | US-08-441-971-17 |

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|----|-------|------|------|---|--------------------|-------------------|
| 25 | 232.4 | 68.4 | 340 | 3 | US-08-221-653-17 | Sequence 17, Appl |
| 26 | 232.4 | 68.4 | 340 | 3 | US-08-442-144A-17 | Sequence 17, Appl |
| 27 | 232.4 | 68.4 | 340 | 3 | US-08-441-970-17 | Sequence 17, Appl |
| 28 | 231.2 | 68.0 | 340 | 3 | US-08-441-971-14 | Sequence 14, Appl |
| 29 | 231.2 | 68.0 | 340 | 3 | US-08-221-653-14 | Sequence 14, Appl |
| 30 | 231.2 | 68.0 | 340 | 3 | US-08-442-144A-14 | Sequence 14, Appl |
| 31 | 231.2 | 68.0 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 32 | 228.8 | 67.3 | 340 | 3 | US-08-836-075A-77 | Sequence 17, Appl |
| 33 | 209.8 | 61.7 | 335 | 3 | US-08-836-075A-101 | Sequence 101, App |
| 34 | 207.8 | 61.1 | 340 | 3 | US-08-836-075A-105 | Sequence 105, App |
| 35 | 200.8 | 59.1 | 340 | 3 | US-08-836-075A-99 | Sequence 99, Appl |
| 36 | 165.6 | 48.7 | 1782 | 3 | US-09-597-877-11 | Sequence 57, Appl |
| 37 | 165.2 | 48.6 | 1773 | 3 | US-08-836-075A-57 | Sequence 57, Appl |
| 38 | 164 | 48.2 | 1773 | 3 | US-09-194-949A-14 | Sequence 14, Appl |
| 39 | 160.8 | 47.3 | 340 | 3 | US-08-441-971-12 | Sequence 12, Appl |
| 40 | 160.8 | 47.3 | 340 | 3 | US-08-221-653-12 | Sequence 12, Appl |
| 41 | 160.8 | 47.3 | 340 | 3 | US-08-442-144A-12 | Sequence 12, Appl |
| 42 | 160.8 | 47.3 | 340 | 3 | US-08-441-970-12 | Sequence 12, Appl |
| 43 | 160.4 | 47.2 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 44 | 159.2 | 46.8 | 340 | 3 | US-08-441-971-8 | Sequence 8, Appl |
| 45 | 159.2 | 46.8 | 340 | 3 | US-08-836-075A-61 | Sequence 61, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-79
Sequence 79, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARMOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-79

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 4.3e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATCGCATTCCTGGCTCGCTT 60
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DB 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATCGCATTCCTGGCTCGCTT 60
   |||||||
QY 61 GCCCGAGAGGCGCCGAGCTGTCAATTCCTGCTCACTGAGAGACTTACATAGCGGCGC 120
   |||||||
DB 61 GCCCGAGAGGCGCCGAGCTGTCAATTCCTGCTCACTGAGAGACTTACATAGCGGCGC 120
   |||||||
QY 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGTGTGCGCGAGCGGGTGT 180
   |||||||
DB 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGTGTGCGCGAGCGGGTGT 180
   |||||||
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGGAGCTTGCAGAGC 240
   |||||||
DB 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGGAGCTTGCAGAGC 240
   |||||||
QY 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
   |||||||
DB 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
   |||||||
QY 301 GAGTCAGGGAGCCGAGAGAGAGCAGCGAAATCTGAGAGTC 340
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DB 301 GAGTCAGGGAGCCGAGAGAGAGCAGCGAAATCTGAGAGTC 340
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RESULT 2

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 71:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 77.9%; Score 264.8; DB 3; Length 340;
Best Local Similarity 86.2%; Pred. No. 1.4e-69;
Matches 293; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATCGCATTCCTGGCTCGCTT 60
   |||||||
DB 1 CTCACAGTCACGAGAGGAGGACATCGAATGAGGATCGCATTCCTGGCTCGCTT 60
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QY 61 GCCCGAGAGGCGCCGAGCTGTCAATTCCTGCTCACTGAGAGACTTACATAGCGGCGC 120
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DB 61 GCCCGAGAGGCGCCGAGCTGTCAATTCCTGCTCACTGAGAGACTTACATAGCGGCGC 120
   |||||||
QY 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGTGTGCGCGAGCGGGTGT 180
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DB 121 GATGATGAACAGCAAAAGGCGAGTCTGTGTGATACAGGCGTGTGCGCGAGCGGGTGT 180
   |||||||
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGGAGCTTGCAGAGC 240
   |||||||
DB 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGGAGCTTGCAGAGC 240
   |||||||
QY 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
   |||||||
DB 241 TCCCGGAGATTGACGCCCCCAATGTTGGTATGTGCGAGCAGACTGTGTGATCTCAGA 300
   |||||||
QY 301 GAGTCAGGGAGCCGAGAGAGAGCAGCGAAATCTGAGAGTC 340
   |||||||
DB 301 GAGTCAGGGAGCCGAGAGAGAGCAGCGAAATCTGAGAGTC 340
   |||||||

```

RESULT 3

US-08-836-075A-73
Sequence 73, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 73:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-73

Query Match 74.6%; Score 253.6; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 3.1e-66;
Matches 286; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGGATCATATTCTGGCTGCTGCTT 60
    |||
DB 1 CTCACAGTCGCGGAGAGAGCATCAGACCGAGGATCATTTACCTTGCTGCTCTT 60
    |||
QY 61 GCCCGAGAGGCGCGGACTGTGATACATTCGCTCACTGAGAGACTTACATAGCGGGCC 120
    |||
DB 61 ACCCGAGAGGCGCGGACTGCTATCATTTGATGAGAGACTTACATAGAGAGGCC 120
    |||
QY 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTTCGGCGCAGCGGGTGT 180
    |||
DB 121 CATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTTCGGCGCAGCGGGTGT 180
    |||
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCATGGCGAGTGTGACAGC 240
    |||
DB 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCATGGCGAGTGTGACAGC 240
    |||
QY 241 TCCCGGATTTGACGCCCCCAATGTTGATGTGGCGAGCATGCTGTGATCTCAGA 300
    |||
DB 241 TCCCGGATTTGACGCCCCCAATGTTGATGTGGCGAGCATGCTGTGATCTCAGA 300
    |||
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGAGGCAATCTGAGAGTC 340
    |||
DB 301 GAGTCAGGGAGCCGAGAGAGAGAGAGGCAATCTGAGAGTC 340
    |||
```

RESULT 4
US-07-925-695-4
Sequence 4, Application US/07925695

GENERAL INFORMATION:
PATENT NO. 5428145
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WU1 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 74.1%; Score 252; DB 2; Length 2693;
Best Local Similarity 83.8%; Pred. No. 1.8e-65;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

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QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGGATCATATTCTGGCTGCTGCTT 60
    |||
DB 2334 CTCACAGTCACGAGAGGAGCATCAGATGAGAGGATCATATTCTGGCTGCTGCTT 2393
    |||
QY 61 GCCCGAGAGGCGCGGACTGTGATACATTCGCTCACTGAGAGACTTACATAGCGGGCC 120
    |||
DB 2334 GCCCGAGAGGCGCGGACTGTGATACATTCGCTCACTGAGAGACTTACATAGCGGGCC 2453
    |||
QY 121 GATGATGAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTTCGGCGCAGCGGGTGT 180
    |||
DB 2454 CATGTTCAACAGCAAGGCGCATCTCTGTGATACAGGCGTGTTCGGCGCAGCGGGTGT 2513
    |||
QY 181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCATGGCGAGTGTGACAGC 240
    |||
DB 2514 TACCACTAGCATGGGCAATACCATCACTGCTATGTGAAGCATGGCGAGTGTGACAGC 2573
    |||
QY 241 TCCCGGATTTGACGCCCCCAATGTTGATGTGGCGAGCATGCTGTGATCTCAGA 300
    |||
DB 2574 TCCCGGATTTGACGCCCCCAATGTTGATGTGGCGAGCATGCTGTGATCTCAGA 2633
    |||
QY 301 GAGTCAGGGAGCCGAGAGAGAGAGAGGCAATCTGAGAGTC 340
    |||
DB 2634 GAGTCAGGGAGCCGAGAGAGAGAGAGGCAATCTGAGAGTC 2673
    |||
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RESULT 5
US-07-925-695-1
Sequence 1, Application US/07925695

GENERAL INFORMATION:
PATENT NO. 5428145
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 74.1%; Score 252; DB 2; Length 9589;
Best Local Similarity 69.7%; Pred. No. 2.7e-65;
Matches 237; Conservative 48; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCAAGGAGGAGACATCAAGAAATGAGATTCCTGGCTGCTT 60
DB 8341 CTCACCGTCACTGAGAGAGACATCAAGAAATGAGATTCCTGGCTGCTT 8400
QY 61 GCCCGAGAGGCGCCGAGTGTCTATCTGCTCACTGAGAGCTTACATAGGCGGCGC 120
DB 8401 GCCCGAGAGGCGCCGAGTGTCTATCTGCTCACTGAGAGCTTACATAGGCGGCGC 8460
QY 121 GATGATGAACAGCAAAAGGCGCATGCTGTGATACAGGCGTGTGCGCGCAGCGGGGTGT 180
DB 8461 CAUGUUCACAGAGAGGCGCAGACUCUGCGGUAUAGCGGUGCGCGCAGCGGGUGU 8520
QY 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGCGAGCTTGACAGC 240
DB 8521 UACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGCGAGCTTGACAGC 8580
QY 241 TGCCGGATTTGAGCGCCCAATGTTGTATGTGCGAGCACTGTGTCTATCTCAGA 300
DB 8581 UGCAAGGAAUATUGCGCCCAATGTTGTATGTGCGAGCACTGTGTCTATCTCAGA 8640
QY 301 GAGTCAGGGAGCCGAGAGGAGCGAAATCTGAGAGTC 340
DB 8641 GAGCCAGGGAGCCGAGAGGAGCGAAATCTGAGAGTC 8680

RESULT 6
US-07-925-695-2
Sequence 2, Application US/07925695

PATENT No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 74.1%; Score 252; DB 2; Length 9589;
Best Local Similarity 83.8%; Pred. No. 2.7e-65;
Matches 285; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1 CTCACAGTCAAGGAGGAGACATCAAGAAATGAGATTCCTGGCTGCTT 60
DB 8341 CTCACCGTCACTGAGAGAGACATCAAGAAATGAGATTCCTGGCTGCTT 8400
QY 61 GCCCGAGAGGCGCCGAGTGTCTATCTGCTCACTGAGAGCTTACATAGGCGGCGC 120
DB 8401 GCCCGAGAGGCGCCGAGTGTCTATCTGCTCACTGAGAGCTTACATAGGCGGCGC 8460
QY 121 GATGATGAACAGCAAAAGGCGCATGCTGTGATACAGGCGTGTGCGCGCAGCGGGGTGT 180
DB 8461 CATGTTCAACAGCAAGGCGCAGACCTGCGGTAACAGGCTGTGCGCGCAGCGGGGTGT 8520
QY 181 CACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGCGAGCTTGACAGC 240
DB 8521 TACCACTAGCATGGGCAATACATCACTGCTATGTGAAAGCCATGCGAGCTTGACAGC 8580
QY 241 TGCCGGATTTGAGCGCCCAATGTTGTATGTGCGAGCACTGTGTCTATCTCAGA 300
DB 8581 TGCAAGGAAUATUGCGCCCAATGTTGTATGTGCGAGCACTGTGTCTATCTCAGA 8640
QY 301 GAGTCAGGGAGCCGAGAGGAGCGAAATCTGAGAGTC 340
DB 8641 GAGCCAGGGAGCCGAGAGGAGCGAAATCTGAGAGTC 8680

RESULT 7
US-08-441-971-13

Sequence 13, Application US/08441971
PATENT No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

```

/ COUNTRY: USA
/ ZIP: 02210
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch
/ OPERATING SYSTEM: MS-DOS Version 3.3
/ SOFTWARE: WordPerfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/441,971
/ FILING DATE: 16-MAY-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/221,653
/ FILING DATE:
/ APPLICATION NUMBER: US/07/881,528
/ FILING DATE:
/ APPLICATION NUMBER: 07/697,326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiuk, Anthony J.
/ REGISTRATION NUMBER: 29,809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELEX: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 13:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ms5k2
/
US-08-441-971-13

```

```

Query Match      73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1,1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

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QY      1 CTCACAGTCAAGAGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
DB      1 CTCACCGTCACTGAGAGAGATCAGAACTGAGAGTCCATATACCGAGCTGCTCCCT 60
QY      61 GCCCGAGAGGCGCCGAGCTGTATCATTCCTGCTCACTGAGAGCTCTATAGGCGGCGC 120
DB      61 GCTGAGAGGCTCACTTCATTCATACACTGCTGAGAGGCTCTACGTGGAGGCGCC 120
QY      121 GATGATGAACAGCAAGAGGAGTCTGTGTGATACAGGCGTGTGCGGCGCAGGCGGTGT 180
DB      121 CATGTTCAACAGCAAGAGGCGCAAGCTGCGGGTACAGGCGTGTCCGCGCCAGCGGGTGT 180
QY      181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGAGCTTGCAAGC 240
DB      181 CACCACTAGCATGGGGAACCATCACTGCTATGTGAAAGCCCTAGCGGCTTGCAAGC 240
QY      241 TCCCGGATTTAGAGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
DB      241 TCCAGGGATTTAGAGCCCTCAATGTGTATGTGCGGCGCAGCACTTATGTCTATCTCAGA 300
QY      301 GAGTCAGGGGAGCCGAGAGAGAGAGGAATCTGAGAG 338
DB      301 AAGCCAGGGGAGCTGAGAGAGAGAGGAGGAGAACTTGAAG 338

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```

RESULT 8
US-08-221-653-13
; Sequence 13, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

```

```

/ TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
/ NUMBER OF SEQUENCES: 147
/ CORRESPONDENCE ADDRESS:
/ ADDRESSER: Wolf, Greenfield & Sacks, P.C.
/ STREET: 600 Atlantic Avenue
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02210
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch
/ OPERATING SYSTEM: MS-DOS Version 3.3
/ SOFTWARE: WordPerfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/221,653
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/07/881,528
/ FILING DATE:
/ APPLICATION NUMBER: 07/697,326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiuk, Anthony J.
/ REGISTRATION NUMBER: 29,809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELEX: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 13:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ms5k2
/
US-08-221-653-13

```

```

Query Match      73.1%; Score 248.4; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 1,1e-64;
Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

```

```

QY      1 CTCACAGTCAAGAGAGGAGATCAGAAATGAGAGTCCATATTCCTGGCTGCTGTT 60
DB      1 CTCACCGTCACTGAGAGAGATCAGAACTGAGAGTCCATATACCGAGCTGCTCCCT 60
QY      61 GCCCGAGAGGCGCCGAGCTGTATCATTCCTGCTCACTGAGAGCTCTATAGGCGGCGC 120
DB      61 GCTGAGAGGCTCACTTCATTCATACACTGCTGAGAGGCTCTACGTGGAGGCGCC 120
QY      121 GATGATGAACAGCAAGAGGAGTCTGTGTGATACAGGCGTGTGCGGCGCAGGCGGTGT 180
DB      121 CATGTTCAACAGCAAGAGGCGCAAGCTGCGGGTACAGGCGTGTCCGCGCCAGCGGGTGT 180
QY      181 CACCACTAGCATGGGCAATACCATCACTGCTATGTGAAAGCCATGAGAGCTTGCAAGC 240
DB      181 CACCACTAGCATGGGGAACCATCACTGCTATGTGAAAGCCCTAGCGGCTTGCAAGC 240
QY      241 TCCCGGATTTAGAGCCCCCAATGTTGTATGTGCGCAGCACTGCTGTCTATCTCAGA 300
DB      241 TCCAGGGATTTAGAGCCCTCAATGTGTATGTGCGGCGCAGCACTTATGTCTATCTCAGA 300
QY      301 GAGTCAGGGGAGCCGAGAGAGAGAGGAATCTGAGAG 338
DB      301 AAGCCAGGGGAGCTGAGAGAGAGAGGAGGAGAACTTGAAG 338

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```

RESULT 9
US-08-442-144A-13

```

Sequence 13, Application US/08442144A
 Patent No. 6214583
 GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 APPLICANT: Eileen Beall
 APPLICANT: Bruce Irvine
 APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdea
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 148
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street
 CITY: Emeryville
 STATE: California
 COUNTRY: USA
 ZIP: 94608-2916
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 Inch
 OPERATING SYSTEM: Windows NT
 SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442,144A
 FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/221,653
 FILING DATE: APRIL 1, 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Doreen Valiko Trujillo
 REGISTRATION NUMBER: 35,719
 REFERENCE/DOCKET NUMBER: CHIR-0121
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 TELEX:
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 Nucleotides
 TYPE: Nucleic Acid
 STRANDEDNESS: Single
 TOPOLOGY: Linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5k2
 US-08-442-144A-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;

Best Local Similarity 83.4%; Pred. No. 1.1e-64;

Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCT 60
 DB 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCT 60
 QY 61 GCCCGAGAGGCGCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGCG 120
 DB 61 GCGTGAAGAGGCTCATATGCTCATACATCTGCTGAGAGGCTTACGTTGAGAGGCG 120
 QY 121 GATGATGAAGAGCAAGGCGAGTCTGTGATACAGGCGTGTGCGGCGAGCGGGTGT 180
 DB 121 CATGTTCAACAGCAAGGCGGAGCTGTGCGGCTTGCAGGCGGAGGCTGT 180
 QY 181 CACCACTAGCATGGGCAATATCATCACTGTCTATGTGAAGCCATGGCAGCTTGCAAGC 240
 DB 181 CACCACTAGCATGGGCAATATCATCACTGTCTATGTGAAGCCATGGCAGCTTGCAAGC 240
 QY 241 TGCAGGATGATGAGCGCCCGCAATGTTGGTATGTGGCAGAGCCTGTGTCTATCAAGA 300
 DB 241 TGCAGGATGATGAGCGCCCGCAATGTTGGTATGTGGCAGAGCCTGTGTCTATCAAGA 300

QY 301 GAGTCAGGAGGACCGAGAGGAGCGAGCGAATCTGAGAG 338
 DB 301 AAGCCAGGAGGAGCTGAGAGGAGCGAGCGGAGCCTGAGAG 338

RESULT 10
 US-08-441-970-13

Sequence 13, Application US/08441970
 Patent No. 6297370

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 147
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue

CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA

ZIP: 02210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch

OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995
 CLASSIFICATION: 536

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992
 APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.
 REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000
 TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides
 TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: linear

MOLECULE TYPE: DNA
 ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5k2
 US-08-441-970-13

Query Match 73.1%; Score 248.4; DB 3; Length 340;

Best Local Similarity 83.4%; Pred. No. 1.1e-64;

Matches 282; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

QY 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCT 60
 DB 1 CTCACAGTCACGAGAGGAGCATCAGATGAGAGTCATATTCCTGCGCTGCT 60
 QY 61 GCCCGAGAGGCGCGGAGCTGTCTATCATTTGCTCATGAGACTTACATAGGCGGCG 120
 DB 61 GCGTGAAGAGGCTCATATGCTCATACATCTGCTGAGAGGCTTACGTTGAGAGGCG 120
 QY 121 GATGATGAAGAGCAAGGCGAGTCTGTGATACAGGCGTGTGCGGCGAGCGGGTGT 180
 DB 121 CATGTTCAACAGCAAGGCGGAGCTGTGCGGCTTGCAGGCGGAGGCTGT 180
 QY 181 CACCACTAGCATGGGCAATATCATCACTGTCTATGTGAAGCCATGGCAGCTTGCAAGC 240
 DB 181 CACCACTAGCATGGGCAATATCATCACTGTCTATGTGAAGCCATGGCAGCTTGCAAGC 240


```

;
; NUMBER OF SEQUENCES: 147
;
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
;
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5110
;
; US-08-221-653-15
;
Query Match          71.3%; Score 242.4; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 7e-63;
Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;
;
QY 1 CTCGAAGTCACGAGAGGAGCATCTAGATGAGAGTCCATTTCTGCGCTCGCT 60
DB 1 CTCCTACAGTCACGAGAGGAGCATCAGAACCGAGAGTCATCTATCTGCTGCTACT 60
QY 61 GCCCGAGAGGCGCCGAGATGTCATGATTCGCTCACTGAGAGACTCTACATAGGCGGGCC 120
DB 61 GCGTGAAGAGGCCCGAATCTCTATACACTGACTGAGAGACTGATGAGGGGGGCC 120
QY 121 GATGATGAACAGCAAAAGGCCAGTCTGTGTGATACAGGCGCTTGTGCGCCACGCGGGTGT 180
DB 121 CATGACAAACAGCAAGGGGCAATCTGCGGGTACAGGCGCTTGTGCGCGAGCGAGTGTCT 180
QY 181 CACCACTAGATGAGGCGCAATCCTACGTGCTATGTGAAAGCCATGCGAGCTTGACAGCC 240
DB 181 CACCACTAGATGAGGCGCAATCCTACGTGCTATGTGAAAGCCATGCGAGCTTGACAGCC 240
QY 241 TGCGGGATTTGAGCGCCCGCAATGTTGTGATGTGAGCGAGCACTGAGTGTGATCTCAGA 300
DB 241 CGGGGCAATTTGTTCTCCACATGTTGTGTGCGGAGCACTGATGTTGTCTCATCTCAGA 300
QY 301 GAGTCAGGAGCGGAGGAGGAGCGAGCAAACTTGAGAGTC 340
DB 301 GAGTCAGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
;
RESULT 14
US-08-442-144A-15
; Sequence 15, Application US/08442144A

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```

; Patent No. 6214583
;
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdrea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
;
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yanko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
;
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5110
;
; US-08-442-144A-15
;
Query Match          71.3%; Score 242.4; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 7e-63;
Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;
;
QY 1 CTCGAAGTCACGAGAGGAGCATCAGAAATGAGAGTCCATTTCTGCGCTCGCT 60
DB 1 CTCCTACAGTCACGAGAGGAGCATCAGAACCGAGAGTCATCTATCTGCTGCTACT 60
QY 61 GCCCGAGAGGCGCCGAGATGTCATGATTCGCTCACTGAGAGACTCTACATAGGCGGGCC 120
DB 61 GCGTGAAGAGGCCCGAATCTCTATACACTGACTGAGAGACTGATGAGGGGGGCC 120
QY 121 GATGATGAACAGCAAAAGGCCAGTCTGTGTGATACAGGCGCTTGTGCGCCACGCGGGTGT 180
DB 121 CATGACAAACAGCAAGGGGCAATCTGCGGGTACAGGCGCTTGTGCGCGAGCGAGTGTCT 180
QY 181 CACCACTAGATGAGGCGCAATCCTACGTGCTATGTGAAAGCCATGCGAGCTTGACAGCC 240
DB 181 CACCACTAGATGAGGCGCAATCCTACGTGCTATGTGAAAGCCATGCGAGCTTGACAGCC 240
QY 241 TGCGGGATTTGAGCGCCCGCAATGTTGTGATGTGAGCGAGCACTGAGTGTGATCTCAGA 300
DB 241 CGGGGCAATTTGTTCTCCACATGTTGTGTGCGGAGCACTGATGTTGTCTCATCTCAGA 300
QY 301 GAGTCAGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

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Db 301 GAGTCAGGGGGTTCGAGAGATGAGCGGAACCTGAGAGATC 340

RESULT 15

US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 629370

GENERAL INFORMATION:

Applicant: Tai-An Cha

Title of Invention: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

Number of Sequences: 147

Correspondence Address:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch

COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/441,970

FILING DATE: 16-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/881,528

FILING DATE: 08-MAY-1992

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5110

US-08-441-970-15

Query Match 71.3%; Score 242.4; DB 3; Length 340;

Best Local Similarity 82.1%; Pred. 1%;

Matches 279; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 1 CTCAACAGTACGAGAGGAGATCAGAAATGAGAGTCCATATTCCTGCTCGTT 60

DB 1 CTCTACAGTCACAGAGAGGAGATCAGAAACGAGAGTCCATATTCCTGCTCACT 60

QY 61 GCCCGAGAGAGGCGCCGAGCTGATCATATTCGCTCACTGAGAGACTTACATAGGCGGGGC 120

DB 61 GCTTACAGAGGCGCCGAGAGCTGATCACTGAGAGACTGTAAGTACGTAAGGCGGGGC 120

QY 121 GATGATGAGACAGCAAGGCGAGTCTGTGATATACAGGCGTTTCCGCCAGCGGGGTGT 180

DB 121 CATGACAAACAGCAAGGCGAGTCTGTGATATACAGGCGTTTCCGCCAGCGGGGTGT 180

QY 181 CACCACTAGCAGTGGCAATATCATCACTGCTATGTGAAAGCCATGGCAGCTTGCAAGAC 240

DB 181 CACCACTAGCAGTGGCAATATCATCACTGCTATGTGAAAGCCATGGCAGCTTGTAACGC 240

QY 241 TGCCGGATGACCGCCCCACAAATGTTGATATGTCGACGACCTGTGTATCTCAGA 300

DB 241 CGCGGCAATTTGTGCTCCACCAATGTTGTGTGCGGCGACGACCTGTGTATCTCAGA 300

QY 301 GAGTCAGGGGACCGAGAGAGACGAGCGAATCTGAGATC 340

DB 301 GAGTCAGGGGATCGAGAGATGAGCGGAACTGAGATC 340

Search completed: January 11, 2006, 10:56:49
Job time : 83.331 secs

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ANTI-SENSE: NO
US-08-836-075A-81

Query Match 99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2.3e-99;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCCTGACCTCTACTGCTGACCTGAAACGAGATATCAGGGTATGAAAGAAATATATCAATGTT 60
DB 1 CTCCTGACCTCTACTGCTGACCTGAAACGAGATATCAGGGTATGAAAGAAATATATCAATGTT 60
QY 61 GTGACCTTGAGCGGAGGCTTAGACGGGCAATCAATCGCTCAACGAAAGGCTTTACGTTG 120
DB 61 GTGACCTTGAGCGGAGGCTTAGACGGGCAATCAATCGCTCAACGAAAGGCTTTACGTTG 120
QY 121 GAGGTCCTCATGTTTCAACAGCAAGAGGGGCTCAATGCGGATATGCGGCTTCCGCTGTAAGG 180
DB 121 GAGGTCCTCATGTTTCAACAGCAAGAGGGGCTCAATGCGGATATGCGGCTTCCGCTGTAAGG 180
QY 181 GGTATTTGCGCACTAGCTACGGGTAATACATCACTGCTACATCAAGGCGAGAGGGGCTG 240
DB 181 GGTATTTGCGCACTAGCTACGGGTAATACATCACTGCTACATCAAGGCGAGAGGGGCTG 240
QY 241 CTCGAGCTGCGGAGGCTTTCAAGACCCATCATCTTGTCTGCGAGATGATTTGGTGTAG 300
DB 241 CTCGAGCTGCGGAGGCTTTCAAGACCCATCATCTTGTCTGCGAGATGATTTGGTGTAG 300
QY 301 TGGCTGAGAGTTGCCGCGCTTGATGAGAGAGATAGGGCAGC 340
DB 301 TGGCTGAGAGTTGCCGCGCTTGATGAGAGAGATAGGGCAGC 340

RESULT 2

US-08-441-971-22

Sequence 22, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5gh8

US-08-441-971-22

Query Match 62.8%; Score 213.4; DB 3; Length 340;
Best Local Similarity 78.8%; Pred. No. 9.7e-59;
Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

QY 8 CTCCTACTGCTCACTGAAAGAGATATCAGGGTATGAAAGAAATATATCAATGTTGACCT 67
DB 1 CTCACCTGCTCACTGAAAGAGATATCAGGGTATGAAAGAGATATATCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTAGACGGGCAATCAATCGCTCAACGAAAGGCTTTACGTTGAGGCTGC 127
DB 61 TGAACCGAGGCGCAAGAAAGATCTCTCCCTCACGGAACGGCTTTACTGCGGGGGCC 120
QY 128 CATGTTCAACGCAAGAGGCTCAATGCGGATATGCGGCTTCCGCTGCTACGGGTATTT 187
DB 121 TATGTTCAACGCAAGAGGCGCCAGTGTGTTATCGCCGTTGCCGTGCAAGTGAATCT 180
QY 188 GCCACCTAGCTAGCGGTAATACATCACTGCTACATCAAGGCGAGAGGGGCTGTCGAGC 247
DB 181 GCTTACGAGCTTCCGCAACATCACTGTTTACATCAAGCTAGAGGCGCTGCGGAAGC 240
QY 248 TCGGGGCTTTCAAGACCCATCATCTTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAACCGGACCTTCTTGTCTGCGAGATGATCTGTTGTGTGGCTGA 300
QY 308 GAGTTCGCGCGCTTGATGAGA 328
DB 301 GAGTTCGCGCGCTTGATGAGA 321

RESULT 3

US-08-221-653-22

Sequence 22, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5gh8

US-08-221-653-22

Query Match

Best Local Similarity 78.8%; Score 213.4; DB 3; Length 340;

Best Local Similarity 78.8%; Pred. No. 9.7e-59;

Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

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QY 8 CTCTACTGTCATGTAACGAGATATCAGGGGTGAGAGAGAAATATCAATGTTGAGCT 67
DB 1 CTCAACTGTCTGATGACAGAGATCAGGATGAGAGAGATATCAATGCTGTAACT 60
QY 68 TGAGCCGAGGCTAGACGCGCAATCAATCGCTCAGGACGCGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGAGAAAGTATCTCCCTCCCTCAGGAGCGCTTTACTGCGGGGGCCC 120
QY 128 CATGTTCAACAGCAAGGGGCTCAAAATGCGGATATGCGGTTGCCGTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCCGTGCAAGTGAAGTTCT 180
QY 188 GCCCACTGACTAGCGGTATATCAATCACTGCTACATCAAGGCGAGAGGCGCTCGAGC 247
DB 181 GCTTACAGCTTCCGCAACACATCACTGTTTACATCAAGTAAAGCGGCTCGCGAAGC 240
QY 248 TGCGGCGCTTCAAGACCATCATTCCTTCTCGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAACCCGGAATCTTCTGTCTGCGAGATATCTGTTGTGTGTGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTATGCGCTCATATGAGA 321

```

RESULT 4

US-08-442-144A-22
Sequence 22, Application US/08442144A
Patent No. 6214583

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 Nucleotides

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: ns5gh8

US-08-442-144A-22

Query Match

Best Local Similarity 78.8%; Score 213.4; DB 3; Length 340;

Best Local Similarity 78.8%; Pred. No. 9.7e-59;

Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;

```

QY 8 CTCTACTGTCATGTAACGAGATATCAGGGGTGAGAGAGAAATATCAATGTTGAGCT 67
DB 1 CTCAACTGTCTGATGACAGAGATCAGGATGAGAGAGATATCAATGCTGTAACT 60
QY 68 TGAGCCGAGGCTAGACGCGCAATCAATCGCTCAGGACGCGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGAGAAAGTATCTCCCTCCCTCAGGAGCGCTTTACTGCGGGGGCCC 120
QY 128 CATGTTCAACAGCAAGGGGCTCAAAATGCGGATATGCGGTTGCCGTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCCGTGCAAGTGAAGTTCT 180
QY 188 GCCCACTGACTAGCGGTATATCAATCACTGCTACATCAAGGCGAGAGGCGCTCGAGC 247
DB 181 GCTTACAGCTTCCGCAACACATCACTGTTTACATCAAGTAAAGCGGCTCGCGAAGC 240
QY 248 TGCGGCGCTTCAAGACCATCATTCCTTCTCGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTCCGGAACCCGGAATCTTCTGTCTGCGAGATATCTGTTGTGTGTGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTATGCGCTCATATGAGA 321

```

RESULT 5

US-08-441-970-22
Sequence 22, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:

```
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5gh8
US-08-441-970-22
```

```
Query Match      62.8%; Score 213.4; DB 3; Length 340;
Best Local Similarity 78.8%; Pred. No. 9.7e-59;
Matches 253; Conservative 1; Mismatches 67; Indels 0; Gaps 0;
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```
QY      8 CTCTACTGCTACGAAACAGATATCAGGCTAGAGAGAAATATVACCAATGTTGACCT 67
DB      1 CTCACCTGCTACGAAACAGATATCAGGCTAGAGAGAAATATVACCAATGTTGACCT 60
QY      68 TGAGCCGAGGCTAGACCGGCAATCAATCGCTACGGAACGGCTTTACGTTGAGGTC 127
DB      61 TGAACCGAGGCGAAGAAATGATCTCTCCCTACGGAACGGCTTTACGCGGGGGCCC 120
QY      128 CATGTTCAACAGCAAGGGGCTCAATGCGGATATGCGCGTTGCCGTGCTAGCGGTGATT 187
DB      121 TATGTTCAACAGCAAGGGGGCCAGTGTGTTATCGCCGTTGCCGTGCAAGTGTCT 180
QY      188 GCCCACTAGCTACGGTAATCAATCACTGCTACATCAAGGCGAGGCGCTGCTGAGC 247
DB      181 GCTTACAGCTTCGGCAACATCACTTGTTCATCAAGCTAGAGCGGCTGCGAAGC 240
QY      248 TGCGGCGCTTCAAGACCCATCATTCCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 307
DB      241 CGCAGGCGCTCCGGAACCCGGAATTTCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 300
QY      308 GAGTTCGCGCTGTTGATGAGA 328
DB      301 GAGTATGCGCTCAATGATGAGA 321
```

RESULT 6

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US-08-441-971-20
; Sequence 20, Application US/08441971
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
```

```
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-441-971-20
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Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;
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QY      8 CTCTACTGCTACGAAACAGATATCAGGCTAGAGAGAAATATVACCAATGTTGACCT 67
DB      1 CTCACCTGCTACGAAACAGATATCAGGCTAGAGAGAAATATVACCAATGTTGACCT 60
QY      68 TGAGCCGAGGCTAGACCGGCAATCAATCGCTACGGAACGGCTTTACGTTGAGGTC 127
DB      61 TGAACCGAGGCGAAGAAATGATCTCTCCCTACGGAACGGCTTTACGCGGGGGCCC 120
QY      128 CATGTTCAACAGCAAGGGGCTCAATGCGGATATGCGCGTTGCCGTGCTAGCGGTGATT 187
DB      121 TATGTTCAACAGCAAGGGGGCCAGTGTGTTATCGCCGTTGCCGTGCTAGGTGCTCT 180
QY      188 GCCCACTAGCTACGGTAATCAATCACTGCTACATCAAGGCGAGGCGCTGCTGAGC 247
DB      181 GCTTACAGCTTCGGCAACATCACTTGTTCATCAAGCTAGAGCGGCTTGAAGGC 240
QY      248 TGCGGCGCTTCAAGACCCATCATTCCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 307
DB      241 CGCAGGCGCTCCGGAACCCGGAATTTCTTGTCTGCGGAGATGATTGGTGTAGTGGCTGA 300
QY      308 GAGTTCGCGCTGTTGATGAGA 328
DB      301 GAGTATGCGCTCAATGATGAGA 321
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RESULT 7

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US-08-221-653-20
; Sequence 20, Application US/08221653
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESSES:
```

```

ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
CLASSIFICATION: 435
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/597,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-221-653-20

Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 8 CTCTACTGCTCACTGAACAGATATATGAGGAGTGAAGAAATATATCAATGTTGTGACCT 67
DB 1 CTCTACTGCTCACTGAACAGATATATGAGGAGTGAAGAAATATATCAATGTTGTGACCT 60
QY 68 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGAGTCC 120
QY 128 CATGTTCAACAGCAAGGAGGCTCAATATGCGATATGCGCGTGGCTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGAGGCTCAATATGCGATATGCGCGTGGCTGCTAGCGGTATTT 180
QY 188 GCCACCTAGCTAGCGTAAATCAATCACTGCTCAATCAATCAAGGCGGAGGCGGCTGAGC 247
DB 181 GCTTACAGCTTGGGCAACAAATCACTGTTTACATCAAGGCTTGAAGGCGGCTTGAAGG 240
QY 248 TGCAGGCTTCAAGACCCATCATTCCTTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTTCCGGAACCCGAGCTTTCTTGTCTGCGGAGATGATGTCGTGCTGAGTGA 300
QY 308 GAGTTGCGKCGTGTATGAGA 328
DB 301 GAGTGATGCGCTGACGAGGA 321

```

```

APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdia
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESS: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:

INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5111
US-08-442-144A-20

Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY 8 CTCTACTGCTCACTGAACAGATATATGAGGAGTGAAGAAATATATCAATGTTGTGACCT 67
DB 1 CTCTACTGCTCACTGAACAGATATATGAGGAGTGAAGAAATATATCAATGTTGTGACCT 60
QY 68 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGGAGGCTGAGCGGCAATCAATCGCTCAAGGACGGCTTTACGTTGAGAGTCC 120
QY 128 CATGTTCAACAGCAAGGAGGCTCAATATGCGATATGCGCGTGGCTGCTAGCGGTATTT 187
DB 121 TATGTTCAACAGCAAGGAGGCTCAATATGCGATATGCGCGTGGCTGCTAGCGGTATTT 180
QY 188 GCCACCTAGCTAGCGTAAATCAATCACTGCTCAATCAATCAAGGCGGAGGCGGCTGAGC 247
DB 181 GCTTACAGCTTGGGCAACAAATCACTGTTTACATCAAGGCTTGAAGGCGGCTTGAAGG 240
QY 248 TGCAGGCTTCAAGACCCATCATTCCTTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
DB 241 CGCAGGCTTCCGGAACCCGAGCTTTCTTGTCTGCGGAGATGATGTCGTGCTGAGTGA 300
QY 308 GAGTTGCGKCGTGTATGAGA 328
DB 301 GAGTGATGCGCTGACGAGGA 321

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```
RESULT 9
US-08-441-970-20
; Sequence 20, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-2441
; TELEFAX: (617) 720-2441
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5111
US-08-441-970-20

Query Match      62.3%; Score 211.8; DB 3; Length 340;
Best Local Similarity 78.5%; Pred. No. 3.2e-58;
Matches 252; Conservative 1; Mismatches 68; Indels 0; Gaps 0;

QY      8 CTCTACTGTCAGTGAACAGATATCAGGTAGAGAGAAATATACCAATGTTGACCT 67
DB      1 CTCTACTGTCAGTGAACAGATATCAGGTAGAGAGAGATATACCAATGTTGACCT 60
QY      68 TGAGCCGAGGCTAGACGGGCAATCAATCGCTCAGGAAACGGCTTTACGTGAGAGTCC 127
DB      61 TGAGCCGAGGCTAGAGAAAGTATCTCCCTCAGGAGCGGCTTTATGCGGGGGGCC 120
QY      128 CATGTTCAACAGCAGAGGGCTCAATGCGGATATCGCGTTCGCTAGCGGGTAT 187
DB      121 TATGTTCAACAGCAGAGGGGGCCAGTGTGTATCGCCCTTGCGCTAGTGAATCCT 180
QY      188 GCGGCTACTAGCGGTAATACATCACTGCTACATCAAGGCGAGGGCGCTGCAGGC 247
DB      181 GCTTACACACTTGGGCAACATCACTGTTACATCAAGGCTAGAGCGGCTTCAAGGC 240
QY      248 TCGGGGCTTCAAGACCATCATCTCTGTCGCGAGATGATTTGGTGTAGTGGCTGA 307
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DB      241 CGCAGGCTCCGGAACCCGACTTCTTGTCGCGAGATGATCTGTGTGCTGA 300
QY      308 GAGTTGGCGKGTGATGAGA 328
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DB      301 GAGTATGGCTCGACGAGGA 321

RESULT 10
US-09-674-677-6
; Sequence 6, Application US/09674677
; Patent No. 6562622
; GENERAL INFORMATION:
; APPLICANT: Cola, et al.
; TITLE OF INVENTION: CONTINUOUS IN-VITRO EVOLUTION
; FILE REFERENCE: 674537-2003
; CURRENT APPLICATION NUMBER: US/09/674,677
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: PCT/AU99/00341
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: AU P93445
; PRIOR FILING DATE: 1998-05-08
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 1716
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(176)
; OTHER INFORMATION: DNA sequence of the hepatitis C virus RNA dependent RNA
; OTHER INFORMATION: polymerase
US-09-674-677-6

Query Match      61.7%; Score 209.8; DB 3; Length 1716;
Best Local Similarity 77.4%; Pred. No. 2.8e-57;
Matches 253; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY      4 TTGACTTACTGTACTGAACAGATATCAGGTAGAGAGAAATATACCAATGTTGTC 63
DB      671 TTGACTTACTGTACTGAACAGATATCAGGTAGAGAGAGATATACCAATGTTGTC 730
QY      64 ACCTTGACCGGAGGCTAGACGGGCAATCAATCGCTCAGGAAACGGCTTTACGTTGAG 123
DB      731 ACCTTGAAACGAGGCCAGAAAGTATCTCCTCAGGAGCGGCTTTACGCGGGG 790
QY      124 GTCCATTTTCAACAGCAGAGGGCTCAATGCGGATATCGCCGTTGCCGTGACGGTG 183
DB      791 GCCCATATTTCAACAGCAGAGGGGGCTCAGTGTGTGACCGTTCGTCGCGCCAGTGGAG 850
QY      184 TATTGCCCACTAGCTAGAGGTAATCAATCACCTGCTACATCAAGGCGAGCGGCTGCTC 243
DB      851 TTTGCTTACCAAGCTTTTGCAATACATCACTGTTATCAATCAAAAGCCACAGCGGCTGCGA 910
QY      244 GAGCTCGGGGCTTCAAGACCCATCATCTTGTCTGCGAGATGATTTGGTGTAGTGG 303
DB      911 ACGGCGAGGCTCGCGGAGCCCGGACTTTCTGTCTGCGAGATGATCTGTGTCGTGG 970
QY      304 CTGAGATTGGCGKCTTATGAGAGG 330
DB      971 CCGAGATGACGGCGCTCATGAGGATG 997

RESULT 11
US-08-441-971-21
; Sequence 21, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
```

ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns514
US-08-441-971-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1.1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;
QY 8 CTCGACTGCTCACTGAACAGGATATCGAGTACGAGAAAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGCTCACTGAACAGGATATCGAGTACGAGAAAGGATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTGACGCGGCAATCGCTCACGGAACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGCAAGAAAGTATCTCTCCCTCACGAGCGGCTTTACTGCGGGGCGCC 120
QY 128 CATGTTCAACAGCAAGGCGCTCAATGCGATATGCGGTTGCGCTGCTAGCGGTGATTT 187
DB 121 TATGTTCAATAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCCCTGCTAGTGAAGTTCT 180
QY 188 GCCCACTAGCTAGCGTAAATACATCACTGCTACATCAAGGCGAGCGGCTGCTGAGC 247
DB 181 GCTTACAGCTTCGGCAACACATCACTGTTATCAATCAAGGCTAGAGCGGCTGCGAAGCC 240
QY 248 TGGCGGCTTCAAGACCATCATCTCTGTCGCGGAGATGATTTGGTGTGATGAGCTGA 307
DB 241 CGCAGGCGCTCCGAGACCCGAGCTTCTGCTGCGAGATGATCTGTTGTGTGAGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTGACGAGAGA 321

RESULT 12
US-08-221-653-21
; Sequence 21, Application US/08221653

Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSER: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns514
US-08-221-653-21

Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1.1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;
QY 8 CTCGACTGCTCACTGAACAGGATATCGAGTACGAGAAAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGCTCACTGAACAGGATATCGAGTACGAGAAAGGATATACCAATGTTGACCT 60
QY 68 TGAGCCGAGGCTGACGCGGCAATCGCTCACGGAACGGCTTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGCAAGAAAGTATCTCTCCCTCACGAGCGGCTTTACTGCGGGGCGCC 120
QY 128 CATGTTCAACAGCAAGGCGCTCAATGCGATATGCGGTTGCGCTGCTAGCGGTGATTT 187
DB 121 TATGTTCAATAGCAAGGGGCGCCAGTGTGTTATGCGCGTTGCCCTGCTAGTGAAGTTCT 180
QY 188 GCCCACTAGCTAGCGTAAATACATCACTGCTACATCAAGGCGAGCGGCTGCTGAGC 247
DB 181 GCTTACAGCTTCGGCAACACATCACTGTTATCAATCAAGGCTAGAGCGGCTGCGAAGCC 240
QY 248 TGGCGGCTTCAAGACCATCATCTCTGTCGCGGAGATGATTTGGTGTGATGAGCTGA 307
DB 241 CGCAGGCGCTCCGAGACCCGAGCTTCTGCTGCGAGATGATCTGTTGTGTGAGCTGA 300
QY 308 GAGTTGCGKCGTTGATGAGA 328
DB 301 GAGTGATGCGCTGACGAGAGA 321

RESULT 13
US-08-442-144A-21
; Sequence 21, Application US/0842144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yalko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns514
; US-08-442-144A-21
Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1,1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;
QY 8 CTCCTACTGCTACTGAAACAGGATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGTCTACTGAAACAGGATATCAGGCTAGAGAGAAATATACCAATGCTGTAACCT 60
QY 68 TGAGCCGAGGCTAGACGCGGCAATCGCTCAGGAACGCGCTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGGAAGATGATCTCTCCCTCAGAGCGGCTTTACTGCGGGGCCCC 120
QY 128 CATGTTCAACAGAGGGGCTCAATGCGGATATCGCGTTCGCTAGCGGTGTATT 187
DB 121 TATGTTCAATAGCAGAGGGGCCAGTGTGTTATCCCGTTGCGGTGCTAGTGAATTCT 180
QY 188 GCCCAGTACCTACGTTAATCAATCACTGCTACATCAAGGCGAGGCGGCTGCTGAGC 247
DB 181 GCTACACAGCTTCGCGACACAACTCACTTGTTCATCAAGGCTAGAGCGGCTGCGAAGGC 240

QY 248 TCGCGGCTTCAAGACCCATATTCCTGTCTGCGGAGATGATTGGTGAAGTCTGA 307
DB 241 CGCAGGGGCTCGGAGCCCGGAGCTTTCGTCTGCGGAGATGATCTGTGTGCTGA 300
QY 308 GAGTTGGCGKCTTGATGAGA 328
DB 301 GAGTGATGGCGCTGACGAGGA 321
RESULT 14
US-08-441-970-21
; Sequence 21, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 Inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 MAY 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janluk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns514
; US-08-441-970-21
Query Match 60.9%; Score 207; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 1,1e-56;
Matches 249; Conservative 1; Mismatches 71; Indels 0; Gaps 0;
QY 8 CTCCTACTGCTACTGAAACAGATATATCAGGCTAGAGAGAAATATACCAATGTTGACCT 67
DB 1 CTCGACTGTCTACTGAAACAGATATCAGGCTAGAGAGAAATATACCAATGCTGTAACCT 60
QY 68 TGAGCCGAGGCTAGACGCGGCAATCGCTCAGGAACGCGCTTACGTTGAGAGTCC 127
DB 61 TGAACCGAGGCGAGGAAGATGATCTCTCCCTCAGAGCGGCTTTACTGCGGGGCCCC 120
QY 128 CATGTTCAACAGAGGGGCTCAATGCGGATATGCGGTCGCTGCTAGCGGTGTATT 187
DB 121 TATGTTCAATAGCAGAGGGGCCAGTGTGTTATGCGCGTTCGCTAGTGAATTCT 180

OY 188 GCCCACTAGTACGCTAATACATCCTGTACATCAAGCCAGAGCGCTGTGAGC 247
|||
DB 181 GCTTACCAAGCTTCGGCAACACATCTGTTATCATCAAGGCTAGAGGGCTGCCAAGGC 240
|||
OY 248 TCGGGGCTTCAAGACCATCTTCCTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
|||
DB 241 CGCAGGGCTCCGGACCCCGACTTCTGCTGCGAGATGATCTGTTGTGTGGCTGA 300
|||
OY 308 GAGTTCGCGCTGTATGAGA 328
|||
DB 301 GAGTATGCGCTGACGAGA 321
|||

RESULT 15

US-09-878-281A-217
; Sequence 217, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-217

Query Match 59.9%; Score 203.8; DB 3; Length 340;
Best Local Similarity 76.9%; Pred.No. 1.2e-55;
Matches 247; Conservative 1; Mismatches 73; Indels 0; Gap 0;

OY 8 CTCTACTGTCACTGAACAGATATCAGGCTAGAGAGAATAATATCAATGTTGTGACCT 67
|||
DB 1 CTCGACTGTCTAGTAACAGACATCAGGCTGAGAGAGATATATCAATGCTGCACT 60
|||
OY 68 TGAGCCGAGGCTAGACGCGGCATCAAAATCGCTACGGAACGCGTTTACGTTGAGGTCC 127
|||
DB 61 TGAACCGAGGCGCAGAAAGTATCTCTCCCTCACGAGCGGCTTTACTGCGAGGCC 120
|||
OY 128 CATGTTCAACAGCAGAGGGCTCAATGCGGATATGCGCGTGGCTGCTAGCGGTAT 187
|||
DB 121 TATGTTTAAACAGCAAGGGGCCAGTGTGTTATGCGCGTGGCCAGTGAATCT 180
|||
OY 188 GCCCACTAGCTACGCTAATATCAATCCTGTACATCAAGGCCAGAGCGGCTGCGAGC 247
|||
DB 181 GCTTACCAAGCTTCGGCAACACATCTGTTATCATCAAGGCTAGAGGGCTGCCAAGGC 240
|||
OY 248 TCGGGGCTTCAAGACCATCTTCCTGTCTGCGAGATGATTTGGTGTAGTGGCTGA 307
|||
DB 241 CGCAGGGCTCCGGACCCCGACTTCTGCTGCGAGATGATCTGTTGTGTGGCTGA 300
|||
OY 308 GAGTTCGCGCTGTATGAGA 328
|||
DB 301 GAGTATGCGCTGACGAGA 321
|||

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Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 04:38:01 ; Search time 82.331 Seconds
(without alignments)
7340.750 Million cell updates/sec

Title: US-08-836-075B-83

Perfect score: 340

Sequence: 1 ctccaccgttaaccgaaag.....ataaccgacccctcnagcc 340

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
5: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
6: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
7: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
8: /cgn2_6/ptodata/1/ina/6 COMB.seq:*
9: /cgn2_6/ptodata/1/ina/6 COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|--------------------|-------------------|
| 1 | 339 | 99.7 | 340 | US-08-836-075A-83 | Sequence 83, Appl |
| 2 | 291 | 85.6 | 340 | US-09-878-281A-106 | Sequence 106, App |
| 3 | 291 | 85.6 | 340 | US-09-878-281A-112 | Sequence 112, App |
| 4 | 281.4 | 82.8 | 340 | US-09-878-281A-108 | Sequence 108, App |
| 5 | 281.4 | 82.8 | 340 | US-09-878-281A-110 | Sequence 110, App |
| 6 | 269.2 | 79.2 | 340 | US-09-878-281A-201 | Sequence 201, App |
| 7 | 262.8 | 77.3 | 340 | US-08-836-075A-87 | Sequence 87, Appl |
| 8 | 262.8 | 77.3 | 340 | US-09-878-281A-116 | Sequence 116, App |
| 9 | 255 | 75.0 | 340 | US-08-836-075A-85 | Sequence 85, Appl |
| 10 | 249.4 | 73.4 | 340 | US-09-878-281A-207 | Sequence 207, App |
| 11 | 246.8 | 72.6 | 340 | US-09-878-281A-403 | Sequence 203, App |
| 12 | 246.2 | 72.4 | 340 | US-09-878-281A-114 | Sequence 114, App |
| 13 | 246.2 | 72.4 | 340 | US-09-878-281A-205 | Sequence 205, App |
| 14 | 245.6 | 72.2 | 340 | US-09-878-281A-209 | Sequence 209, App |
| 15 | 244.4 | 71.9 | 340 | US-09-878-281A-211 | Sequence 211, App |
| 16 | 198.6 | 58.4 | 222 | US-08-537-802-13 | Sequence 13, Appl |
| 17 | 187.4 | 55.1 | 222 | US-08-441-971-20 | Sequence 15, Appl |
| 18 | 175.8 | 51.7 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 19 | 175.8 | 51.7 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 20 | 175.8 | 51.7 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 21 | 175.8 | 51.7 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 22 | 175.8 | 51.7 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 23 | 174.2 | 51.2 | 340 | US-08-836-075A-99 | Sequence 99, Appl |
| 24 | 173.2 | 50.9 | 340 | US-08-441-971-17 | Sequence 17, Appl |

| | | | | | |
|----|-------|------|-----|--------------------|-------------------|
| 25 | 173.2 | 50.9 | 340 | US-08-221-653-17 | Sequence 17, Appl |
| 26 | 173.2 | 50.9 | 340 | US-08-442-144A-17 | Sequence 17, Appl |
| 27 | 173.2 | 50.9 | 340 | US-08-441-970-17 | Sequence 17, Appl |
| 28 | 172.6 | 50.8 | 340 | US-08-441-971-5 | Sequence 5, Appl |
| 29 | 172.6 | 50.8 | 340 | US-08-441-971-22 | Sequence 22, Appl |
| 30 | 172.6 | 50.8 | 340 | US-08-221-653-5 | Sequence 5, Appl |
| 31 | 172.6 | 50.8 | 340 | US-08-221-653-22 | Sequence 22, Appl |
| 32 | 172.6 | 50.8 | 340 | US-08-442-144A-5 | Sequence 5, Appl |
| 33 | 172.6 | 50.8 | 340 | US-08-442-144A-22 | Sequence 22, Appl |
| 34 | 172.6 | 50.8 | 340 | US-08-441-970-5 | Sequence 5, Appl |
| 35 | 172.6 | 50.8 | 340 | US-08-441-970-22 | Sequence 22, Appl |
| 36 | 171 | 50.3 | 340 | US-08-441-971-21 | Sequence 21, Appl |
| 37 | 171 | 50.3 | 340 | US-08-221-653-21 | Sequence 21, Appl |
| 38 | 171 | 50.3 | 340 | US-08-442-144A-21 | Sequence 21, Appl |
| 39 | 171 | 50.3 | 340 | US-08-441-970-21 | Sequence 21, Appl |
| 40 | 170.6 | 50.2 | 335 | US-08-836-075A-101 | Sequence 101, App |
| 41 | 170.2 | 50.1 | 340 | US-08-836-075A-55 | Sequence 55, Appl |
| 42 | 169.4 | 49.8 | 340 | US-08-441-971-3 | Sequence 3, Appl |
| 43 | 169.4 | 49.8 | 340 | US-08-221-653-3 | Sequence 3, Appl |
| 44 | 169.4 | 49.8 | 340 | US-08-442-144A-3 | Sequence 3, Appl |
| 45 | 169.4 | 49.8 | 340 | US-08-441-970-3 | Sequence 3, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-83
; Sequence 83, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836, 075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 83:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-83

Query Match 99.7%; Score 339; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 8.6e-92;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
DB 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
OY 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTTACGTGGCGGCC 120
DB 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTTACGTGGCGGCC 120
OY 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
DB 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
DB 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
OY 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
DB 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
DB 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
```

RESULT 2

US-09-878-281A-106
Sequence 106, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 106
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-106

Query Match 85.6%; Score 291; DB 3; Length 340;
Best Local Similarity 90.9%; Pred. No. 2e-77;
Matches 309; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

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OY 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
DB 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
OY 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTTACGTGGCGGCC 120
DB 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAGACTTACGTGGCGGCC 120
OY 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
DB 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
DB 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
OY 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
DB 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
```

```
DB 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
DB 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
```

RESULT 3

US-09-878-281A-112
Sequence 112, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 112
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-112

Query Match 85.6%; Score 291; DB 3; Length 340;
Best Local Similarity 90.9%; Pred. No. 2e-77;
Matches 309; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

```
OY 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
DB 1 CTCGACTGTAAACGAAAGAGATCATGAGCCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
OY 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAAAGACTTACGTGGCGGCC 120
DB 61 GAGAGCCGGAAGCTCGCAAGTTATTAACGCCCTCACAGAGACTTATGTGGCGGCC 120
OY 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
DB 121 CATGACAAACAGCAAGGAGGACCTTTGTGGGTATCGGAAATCCCGCGAAGGGGGCTCA 180
OY 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
DB 181 CACGACCAAGCTTCGGAACACACTGACGTGCTACCTCAAGGCTCAGCTGATTAGAGC 240
OY 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
DB 241 GGCAGGGCTGAGAGACTGACACCATGCTGTTGCGGTGACGACTTGTCATCGCTGA 300
OY 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
DB 301 GAGCGATGGCGTTAGAGAGATTAACGAGCCCTCCNAGCC 340
```

RESULT 4

US-09-878-281A-108
Sequence 108, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 108
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-108

Query Match 82.8%; Score 281.4; DB 3; Length 340;
Best Local Similarity 89.1%; Pred. No. 1.5e-74;
Matches 303; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

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QY 1 CTCGACTGTAAACCGAAAGACATCAGGCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
    |||
DB 1 CTCGACTGTAAACCGAAAGACATCAGGGGTGAGAGAGAGATATTCAGTGTGTGACCT 60
    |||
QY 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
DB 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
QY 121 CATGCAACAACGAAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGGCGTCTA 180
    |||
DB 121 CATGATATACGACGAGGAGACCTTGTGGGATTCGAGATTCGCGTGGAGCGGCGTCTA 180
    |||
QY 181 CACGACCACTTCGGAACACACTGACGTCTACTCAAAAGCTTCACTGCTATTAGAC 240
    |||
DB 181 CACGACCACTTCGGAACACACTGACGTCTACTCAAAAGCTTCACTGCGGCTATCAGAGC 240
    |||
QY 241 GCGAGGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
DB 241 GCGGCGGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
QY 301 GAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCCNAGCC 340
    |||
DB 301 AAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCGGAGCC 340
    |||
```

RESULT 5

US-09-878-281A-110
Sequence 110 Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patentin version 3.1
SEQ ID NO 110
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-110

Query Match 82.8%; Score 281.4; DB 3; Length 340;
Best Local Similarity 89.1%; Pred. No. 1.5e-74;
Matches 303; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

```
QY 1 CTCGACTGTAAACCGAAAGACATCAGGCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
    |||
DB 1 CTCGACTGTAAACCGAAAGACATCAGGGGTGAGAGAGAGATATTCAGTGTGTGACCT 60
    |||
QY 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
DB 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
QY 121 CATGCAACAACGAAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGGCGTCTA 180
    |||
DB 121 CATGATATACGACGAGGAGACCTTGTGGGATTCGAGATTCGCGTGGAGCGGCGTCTA 180
    |||
QY 181 CACGACCACTTCGGAACACACTGACGTCTACTCAAAAGCTTCACTGCTATTAGAC 240
    |||
DB 181 CACGACCACTTCGGAACACACTGACGTCTACTCAAAAGCTTCACTGCGGCTATCAGAGC 240
    |||
QY 241 GCGAGGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
DB 241 GTCAGGCGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
```

QY 301 GAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCCNAGCC 340
DB 301 GAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCGGAGTC 340

RESULT 6

US-09-878-281A-201
Sequence 201 Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patentin version 3.1
SEQ ID NO 201
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-201

Query Match 79.2%; Score 269.2; DB 3; Length 340;
Best Local Similarity 87.0%; Pred. No. 6.7e-71;
Matches 295; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

```
QY 1 CTCGACTGTAAACCGAAAGACATCAGGCCGAGAGAAAGGTCTATCAGTGTGTGACCT 60
    |||
DB 1 CTCGACTGTAGCTGAGAGACATCAGGGGTGAGAGAGAGATATTCAGTGTGTGACCT 60
    |||
QY 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
DB 61 GGAGCCCGAAGCTGCGAAGTTTATCCGCCCTCACAAAAGACTTACGTGGGCGGCC 120
    |||
QY 121 CATGCAACAACGAAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGGCGTCTA 180
    |||
DB 121 TATGTACATATGCAAGGAGACCTTTGCGGGTATCGAGATGCGCGAAGCGGCGTCTA 180
    |||
QY 181 CACGACCACTTCGGAACACACTGACGTCTACTCAAAAGCTTCACTGCTATTAGAC 240
    |||
DB 181 TACACAGCTTGGGAAACACACTGACGTCTACTCAAAAGCTTCACTGACCATCAGAGC 240
    |||
QY 241 GCGAGGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
DB 241 TGCAGGCTGAGAGACTGACCATCTGTGTCGGTGAACAATTGGTCTATCGCTGA 300
    |||
QY 301 GAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCCNAGC 339
    |||
DB 301 AAGCGATGGCGTGAAGAGAGATTAACCGAGCCCTCGGAGC 339
    |||
```

RESULT 7

US-08-836-075A-87
Sequence 87 Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

```
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 87:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-08-836-075A-87
```

```
Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 5.5e-69;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
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```
QY      1 CTCGACTGTAAACGAAAGACATCAGGCCGAGAGAAAGTCTATCAAGTGTGTACCT 60
DB      1 CTCGACCGTTAACGAAAGGACATCAGGGTCAAGAGAGAGTCTATCAAGTGTGTACCT 60
QY      61 GGAGCCCGAAGCTCCGAAAGTTATACCGCCCTCAAGAAACCTCTACGTGGGCGGCC 120
DB      61 GGAGCCGAGAGCCCGAAGCAATATCCGCCCTCAAGAGACATCTATGTGGGCGGCC 120
QY      121 CATGCAACAACAGAGAGAGACCTTTGTGGTATCGAGATGCCCGAAGCGGCGTCTA 180
DB      121 CATGTTAAACAGCAAGAGAGACCTATGTGGCTACCGAGAGTCCCGCAAGCGGCGTCTA 180
QY      181 CACGACCAAGCTTCGAAACACACTGACGTCTAAGCTCAAGCTCCTGCTATTAGAGC 240
DB      181 CACCAACAGCTTCGAAACACACTGACGTCTAAGCTCCTGCTAAGCGCCGCTACAGAGC 240
QY      241 GGCAGGGCTGAGAGACTGACATGCTGTGGGTGCGGTGACGACTTGTGTCATGCGTGA 300
DB      241 GGCAGGCTGAGAGACTGACATGCTGTGGGTGCGGTGACGACTTGTGTCATGCGAGA 300
QY      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339

RESULT 8
US-09-878-281A-116
Sequence 116, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Innogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 116
```

```
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-116
```

```
Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 5.5e-69;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
```

```
QY      1 CTCGACTGTAAACGAAAGACATCAGGCCGAGAGAAAGTCTATCAAGTGTGTACCT 60
DB      1 CTCGACCGTTAACGAAAGGACATCAGGGTCAAGAGAGAGTCTATCAAGTGTGTACCT 60
QY      61 GGAGCCCGAAGCTCCGAAAGTTATACCGCCCTCAAGAAACCTCTACGTGGGCGGCC 120
DB      61 GGAGCCGAGAGCCCGAAGCAATATCCGCCCTCAAGAGACATCTATGTGGGCGGCC 120
QY      121 CATGCAACAACAGAGAGAGACCTTTGTGGTATCGAGATGCCCGAAGCGGCGTCTA 180
DB      121 CATGATTAACAGCAAGAGAGACCTTTGCGGGTATCGTAGATGCCCGCAAGCGGCGTATA 180
QY      181 CACGACCAAGCTTCGAAACACACTGACGTCTAAGCTCCTGCTATTAGAGC 240
DB      181 CACCAACAGCTTCGAAACACACTGACGTCTAAGCTCCTGCTAAGCGCCCTACAGCCATCAGAGC 240
QY      241 GGCAGGGCTGAGAGACTGACATGCTGTGGGTGCGGTGACGACTTGTGTCATGCGTGA 300
DB      241 TGCGGGCTTAAGATTTGCAACATGCTGTGGGTGCGGTGACGACTTGTGTCATGCGCGA 300
QY      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
DB      301 GAGCGATGCGCTAGAGAGATTAACCGAGCCCTCCNAGC 339
```

```
RESULT 9
US-08-836-075A-85
Sequence 85, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836.075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
```

; INFORMATION FOR SEQ ID NO: 85:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; US-08-836-075A-85

Query Match 75.0%; Score 255; DB 3; Length 340;
Best Local Similarity 83.8%; Pred. No. 1.2e-66;
Matches 285; Conservative 2; Mismatches 53; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGAGATCATGCGCCGAGAGAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACCGGTGATGTAAGGACATCATGAGGTGAGAGAGATCTATCATATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGTTATTACGCGCCCTCACAGAAAGACTCTACGTGGGGGCC 120
DB 61 GGARCCCGAAGCCCCGAAAGCAATATCCGCCCTCACAGAGACTCTTACTTGGGGGCC 120
QY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGCGCTCTA 180
DB 121 CATGATATAACAGCAAGGGAGACTCTGGGGGTATCGAGGTGCGCGAGCGAGTGTGA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGACTGCTACTCTAAAGCTCTAGTCTATTAGAC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTGCTATCTTAAGGCGACCGAGCTACCAAGG 240
QY 241 GGCAGGGCTGAGAGACTGACCATGCTGTGGGTGCGATGCGACTGTCGTGATGCTGA 300
DB 241 TGCAGGCTTAAGAAAGCTGACCATGCTGTGCGGTGACGACTGTGTCATGATGCCGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGACCCCTCCNAGCC 340
DB 301 GAGCGAGGCGGTAGAGAGATTTCCCAACCCCTCCGAGCC 340

RESULT 10

US-09-878-281A-207
; Sequence 207, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 207
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-207

Query Match 73.4%; Score 249.4; DB 3; Length 340;
Best Local Similarity 83.2%; Pred. No. 5.6e-65;
Matches 283; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGAGATCATGCGCCGAGAGAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACCGGTGATGTAAGGACATCATGAGGTGAGAGAGATCTATCATATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGTTATTACGCGCCCTCACAGAAAGACTCTACGTGGGGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGTTATTACGCGCCCTCACAGAAAGACTCTACGTGGGGGCC 120
QY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGCGCTCTA 180
DB 121 CATGATATAACAGCAAGGGAGACTCTGGGGGTATCGAGGTGCGCGAGCGAGTGTGA 180

DB 121 CATGATATAACAGCAAGGGAGACTATGCGGGCTTGGAGGTGCCGCCAAGCGGGTATA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGACTGCTACTCTAAAGCTCTAGTGGGGGCC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTGCTATCTTAAGGCGACAGCAAGCGAGG 240
QY 241 GGCAGGGCTGAGAGACTGCAACATGCTGTTGGGTGAGAGACACTGTGCTCATGCTGA 300
DB 241 TGCAGGGCTGAAGATTTGCACTATGCTGTGATGCGGTGAGACACTTATGCTTATGCCGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGACCCCTCCNAGCC 340
DB 301 AAGCGATGCTGTGAGAGAGACCGCCGAGCCCTCCGAGCC 340

RESULT 11

US-09-878-281A-203
; Sequence 203, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 203
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; US-09-878-281A-203

Query Match 72.6%; Score 246.8; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 3.4e-64;
Matches 281; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 1 CTCACCTGTAACCGAAGGAGATCATGCGCCGAGAGAGGCTTATCATGTTGTGACCT 60
DB 1 CTCACAGTGACTGAAGAGACATCATGAGGTGAGAGAGGCTTATCATGTTGTGACCT 60
QY 61 GGAGCCCGAAGCTCGCAAGTTATTACGCGCCCTCACAGAAAGACTCTAGTGGGGGCC 120
DB 61 GGAGCCCGAAGCTCGCAAGTTATTATCTGCCCTCACTGAAAGACTCTATGTTGGGGGCC 120
QY 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGCGCTCTA 180
DB 121 CATGCAACAACAGCAAGGAGACCTTTGTGGTATCGAGATGCGCGAAGCGCGCTCTA 180
QY 181 CACGACCAAGCTTGGGAAACACACTGACTGCTACTCTAAAGCTCTAGTCTATTAGAGC 240
DB 181 CACCAAGATTTGGGAAACACAGTACTGCTTCTTAAGGCGACAGCGGCAACAAAGC 240
QY 241 GGCAGGGCTGAGAGACTGCAACATGCTGTTGGGTGAGAGACACTGTGCTCATGCTGA 300
DB 241 CGTGGCTTAAGAGACTGCAACATGTTGGTGTGTTGTGAGAGACTTATGCTTATGCCGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGACCCCTCCNAGCC 339
DB 301 AAGCGATGCTGTGAGAGAGACCGCCGAGCCCTCCGAGCC 339

RESULT 12

US-09-878-281A-114
; Sequence 114, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A

/ CURRENT FILING DATE: 2001-06-12
 / NUMBER OF SEQ ID NOS: 284
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO 114
 / LENGTH: 340
 / TYPE: DNA
 / ORGANISM: hepatitis C virus
 US-09-878-281A-114

Query Match 72.4%; Score 246.2; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 5.1e-64;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGAGAGAGGCTCTATCAGTGTGACCT 60
DB 1 CTCACCGGTGACCGAAGGATATCAGACCGAGAGAGATCTACCACTGCTGACACT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTCGCGCCCTCACAGAAAGCTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCCCTAACAGAAAGACTCTACGTGGCGGTC 120
QY 121 CATGCAACAACAGAGAGGAGACTTTGTGGGTATCGGAATGCCCGCAAGCGCGCTCTA 180
DB 121 CATGTAACAACCAAGGGGACCTATGCGGCAACGAGAGTCCCGCAAGCGGGGTCTA 180
QY 181 CACGACCAAGCTTCGGAACACACTGACTACCTCAAAAGCTCAGCTGATTAGAGC 240
DB 181 CACCAACCAAGCTTCGGAACACACTGACTGTTATCTCAAGGCCGTTGCGGCTACTAGG 240
QY 241 GCGAGGCTGAGAGACTGACCAACGCTGGTTGCGGTGACGACTTGTCATCGCTGA 300
DB 241 GCGAGGCTGAGAAAGGTTGACGACTGCTGGTTGTGGAGACGACTTATGTCATCTGCGA 300
QY 301 GAGCGATGCGGTAGAGAGATACCGAGCCCTCCAGGCC 340
DB 301 GAGCGCGGCTGAGAGAGATCAAGAGCCCTCCGAGCC 340
  
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RESULT 13

US-09-878-281A-205
 / Sequence 205, Application US/09878281A
 / Patent No. 6762024
 / GENERAL INFORMATION:
 / APPLICANT: Innogenetics N.V.
 / TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 / TITLE OF INVENTION: and therapy
 / FILE REFERENCE: 35
 / CURRENT APPLICATION NUMBER: US/09/878,281A
 / CURRENT FILING DATE: 2001-06-12
 / NUMBER OF SEQ ID NOS: 284
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO 205
 / LENGTH: 340
 / TYPE: DNA
 / ORGANISM: hepatitis C virus
 US-09-878-281A-205

Query Match 72.4%; Score 246.2; DB 3; Length 340;
 Best Local Similarity 82.6%; Pred. No. 5.1e-64;
 Matches 281; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

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QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGAGAGAGGCTCTATCAGTGTGACCT 60
DB 1 CTCACCGGTGACCGAAGGATATCAGACCGAGAGAGATCTACCACTGCTGACACT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTCGCGCCCTCACAGAAAGCTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGGTATATCCGCCCTAACAGAAAGACTCTACGTGGCGGTC 120
QY 121 CATGCAACAACAGAGAGGAGACTTTGTGGGTATCGGAATGCCCGCAAGCGCGCTCTA 180
DB 121 CATGTAACAACCAAGGGGACCTATGCGGCAACGAGAGTCCCGCAAGCGGGGTCTA 180
  
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QY 181 CACGACCAAGCTTCGGAACACACTGACTACCTCAAAAGCTCAGCTGATTAGAGC 240
DB 181 CACCAACCAAGCTTCGGAACACACTGACTGTTATCTCAAGGCCGTTGCGGCTACTAGG 240
QY 241 GCGAGGCTGAGAGACTGACCAATGCTGTTGGGTGAGCACTTGTGCTATCGCTGA 300
DB 241 GCGAGGCTGAGAAAGGTTGACCAATGCTGTTGTGGAGACGACTTATGTCATCTGCGA 300
QY 301 GAGCGATGCGGTAGAGAGATTAACCGAGCCCTCCAGGCC 340
DB 301 GAGCGCGGCTGAGAGAGATCAAGAGCCCTCCGAGCC 340
  
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RESULT 14

US-09-878-281A-209
 / Sequence 209, Application US/09878281A
 / Patent No. 6762024
 / GENERAL INFORMATION:
 / APPLICANT: Innogenetics N.V.
 / TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 / TITLE OF INVENTION: and therapy
 / FILE REFERENCE: 35
 / CURRENT APPLICATION NUMBER: US/09/878,281A
 / CURRENT FILING DATE: 2001-06-12
 / NUMBER OF SEQ ID NOS: 284
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO 209
 / LENGTH: 340
 / TYPE: DNA
 / ORGANISM: hepatitis C virus
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (13)..(13)
 / OTHER INFORMATION: "n" is any nucleotide
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (23)..(23)
 / OTHER INFORMATION: "n" is any nucleotide
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (72)..(72)
 / OTHER INFORMATION: "n" is any nucleotide
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (65)..(65)
 / OTHER INFORMATION: "n" is any nucleotide
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (277)..(277)
 / OTHER INFORMATION: "n" is any nucleotide
 / FEATURE:
 / NAME/KEY: misc.feature
 / LOCATION: (337)..(337)
 / OTHER INFORMATION: "n" is any nucleotide
 US-09-878-281A-209

Query Match 72.2%; Score 245.6; DB 3; Length 340;
 Best Local Similarity 82.0%; Pred. No. 7.7e-64;
 Matches 278; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

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QY 1 CTCACCTGTAACCGAAGGACATCAGCCCGAGAGAGAGGCTCTATCAGTGTGACCT 60
DB 1 CCCACCGGTGACCGAAGGATATCAGACCGAGAGAGATCTACCACTGCTGACACT 60
QY 61 GGAGCCCGAAGCTCGCAAGGTTATTCGCGCCCTCACAGAAAGCTCTACGTGGCGGCC 120
DB 61 GGAGCCCGAATNCCCGCAAGGTATCAAGCCCTCACAGAGACTCTACGTGGCGGCC 120
QY 121 CATGCAACAACAGAGAGGAGACTTTGTGGGTATCGGAATGCCCGCAAGCGCGCTCTA 180
DB 121 TATGCAACAACAGAGAGGAGACTTGTGGGTATCGGAATGCCCGCAAGCGCGCTCTA 180
QY 181 CACGACCAAGCTTCGGAACACACTGACTGCTCAAAAGCTCAGCTGATTAGAGC 240
  
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DB 181 CACGACGAGCTTCGGAACACGCTGACTTGTAACCTCAAAAGCCACAGCGCCACCGAGGC 240
QY 241 GGCAGGCGCTGAGAGACTGACCATGTGTTGGCGGTGACGACTTGTCGTATGCTGA 300
DB 241 CGCGGCGCTTGAGAGATTGACCATGTGTTGCGGNGACGACTGTTGTCATTGCTGA 300
QY 301 GAGCGATGGCGTGAAGAGATACCGAGCCCTCCNAGC 339
DB 301 GAGCATTTGGCATGAGAGACAGACAGCCCTCCGAGC 339

RESULT 15

US-09-878-281A-211
; Sequence 211, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 211
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (11)..(11)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (327)..(327)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (333)..(334)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (340)..(340)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 71.9%; Score 244.4; DB 3; Length 340;
Best Local Similarity 82.0%; Pred. No. 1.8e-63;
Matches 278; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 1 CTCGACTGTAAACCGAAAGACATCAGGCCCGAGAGAGAGTCTATCACTGTTGACTT 60
DB 1 CTCGACTGTGNCAGAGGAGCATCAGGACAGAGGAGAGTCTATCACTGTTGAGACTT 60
QY 61 GGAGCCCGAAGCTCGAAGGTATTAACGCGCTCAAGAAAGCTCTAGTGGGCGGCC 120
DB 61 GGAACCGAGAGCCCGAAGGTATTAACGCGCTCAAGAAAGCTCTATGTTGGCGAGCC 120
QY 121 CATGCAACAACAGGAGAGACTTGTGTGTTATCGAGAGTCCGCGAAGCGGCGTCTA 180
DB 121 CATGTTCAACAGGAGGAGACTGTGTGCGGACAGCGCGGTGCGGCGGCGTGT 180
QY 181 CAGGACCAAGCTTGGAAACACTGACGTGTAACCTCAAGGCTCAGCTGCTATTAGAGC 240
DB 181 CACCAACCAAGCTTGGAAACACTGACGTGTAACCTCAAGGCTCAGCTGCTATTAGAGC 240
QY 241 GGCAGGCGCTGAGAGACTGACCATGTGTTGCGGTGACGACTTGTCGTATGCTGA 300
DB 241 AGCCGCGCTTAAAGATTGACCAATGCTGTTGCGGTGACGACTTATGTTATTTCCGA 300
QY 301 GAGCGATGGCGTGAAGAGATACCGAGCCCTCCNAGC 339

DB 301 GAGCGCCGTTGTGAGAGAGATCCCANAAACCCNNCGAGC 339

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Job time : 83.331 secs

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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-85

Perfect score: 340

Sequence: 1 ctccacggctgactgaagaag.....atcccaacccctccgagcc 340

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents_NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
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- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 339.2 | 99.8 | 340 | 3 | US-08-836-075A-85 |
| 2 | 267.2 | 78.6 | 340 | 3 | US-09-878-281A-207 |
| 3 | 255 | 75.0 | 340 | 3 | US-08-836-075A-83 |
| 4 | 255 | 75.0 | 340 | 3 | US-09-878-281A-116 |
| 5 | 252.8 | 74.4 | 340 | 3 | US-08-878-281A-106 |
| 6 | 250.2 | 73.6 | 340 | 3 | US-08-836-075A-87 |
| 7 | 249.6 | 73.4 | 340 | 3 | US-09-878-281A-108 |
| 8 | 248.6 | 73.1 | 340 | 3 | US-09-878-281A-110 |
| 9 | 248.6 | 72.5 | 340 | 3 | US-09-878-281A-201 |
| 10 | 246.4 | 72.0 | 340 | 3 | US-09-878-281A-112 |
| 11 | 244.8 | 72.0 | 340 | 3 | US-09-878-281A-114 |
| 12 | 244.8 | 72.0 | 340 | 3 | US-09-878-281A-205 |
| 13 | 243.8 | 71.7 | 340 | 3 | US-09-878-281A-203 |
| 14 | 236.6 | 69.6 | 340 | 3 | US-09-878-281A-211 |
| 15 | 226.6 | 66.6 | 340 | 3 | US-09-878-281A-209 |
| 16 | 180.8 | 53.2 | 340 | 3 | US-09-878-281A-217 |
| 17 | 179.2 | 52.7 | 340 | 3 | US-08-441-971-20 |
| 18 | 179.2 | 52.7 | 340 | 3 | US-08-221-653-20 |
| 19 | 179.2 | 52.7 | 340 | 3 | US-08-442-144A-20 |
| 20 | 179.2 | 52.7 | 340 | 3 | US-08-441-970-20 |
| 21 | 177.2 | 52.1 | 340 | 3 | US-08-836-075A-55 |
| 22 | 176 | 51.8 | 340 | 3 | US-08-441-971-21 |
| 23 | 176 | 51.8 | 340 | 3 | US-08-221-653-21 |
| 24 | 176 | 51.8 | 340 | 3 | US-08-442-144A-21 |

| | | | | | | |
|----|-------|------|------|---|------------------|-------------------|
| 25 | 176 | 51.8 | 340 | 3 | US-08-441-970-21 | Sequence 21, Appl |
| 26 | 176 | 51.8 | 1716 | 3 | US-09-674-677-6 | Sequence 6, Appl |
| 27 | 174.8 | 51.4 | 340 | 3 | US-08-441-971-7 | Sequence 7, Appl |
| 28 | 174.8 | 51.4 | 340 | 3 | US-08-221-653-7 | Sequence 7, Appl |
| 29 | 174.8 | 51.4 | 340 | 3 | US-08-442-144A-7 | Sequence 7, Appl |
| 30 | 174.8 | 51.4 | 340 | 3 | US-08-441-970-7 | Sequence 7, Appl |
| 31 | 174.8 | 51.4 | 1788 | 2 | US-08-722-806A-1 | Sequence 1, Appl |
| 32 | 174.8 | 51.4 | 1788 | 2 | US-09-337-028-1 | Sequence 1, Appl |
| 33 | 174.8 | 51.4 | 1788 | 3 | US-09-597-877-1 | Sequence 1, Appl |
| 34 | 173.2 | 50.9 | 340 | 3 | US-08-441-971-1 | Sequence 1, Appl |
| 35 | 173.2 | 50.9 | 340 | 3 | US-08-441-971-4 | Sequence 1, Appl |
| 36 | 173.2 | 50.9 | 340 | 3 | US-08-221-653-1 | Sequence 1, Appl |
| 37 | 173.2 | 50.9 | 340 | 3 | US-08-221-653-4 | Sequence 1, Appl |
| 38 | 173.2 | 50.9 | 340 | 3 | US-08-442-144A-1 | Sequence 1, Appl |
| 39 | 173.2 | 50.9 | 340 | 3 | US-08-442-144A-4 | Sequence 1, Appl |
| 40 | 173.2 | 50.9 | 340 | 3 | US-08-441-970-1 | Sequence 1, Appl |
| 41 | 173.2 | 50.9 | 340 | 3 | US-08-441-970-4 | Sequence 1, Appl |
| 42 | 173.2 | 50.9 | 561 | 2 | US-07-853-985A-1 | Sequence 4, Appl |
| 43 | 173.2 | 50.9 | 561 | 2 | US-07-681-703B-1 | Sequence 1, Appl |
| 44 | 173.2 | 50.9 | 561 | 2 | US-08-184-236-1 | Sequence 1, Appl |
| 45 | 173.2 | 50.9 | 561 | 2 | US-08-407-410B-1 | Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-85
Sequence 85, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 85:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

QY 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
DB 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
QY 241 TCGAGGCTTAAAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
DB 241 GGCAGGCTGAGAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
QY 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 340
DB 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 340

RESULT 4
US-09-878-281A-116

; Sequence 116, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 116
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-116

Query Match 75.0%; Score 255; DB 3; Length 340;
Best Local Similarity 84.1%; Pred. No. 1,66-64;
Matches 285; Conservative 2; Mismatches 52; Indels 0; Gaps 0;

QY 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTAAGCT 60
DB 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTAAGCT 60
QY 61 GGAACCCGAGCCGCAAGCAATATCCGCTCCACAGAGACTCTTACTTGGGCGGCGC 120
DB 61 GGAACCCGAGCCGCAAGCAATATCCGCTCCACAGAGACTCTTACTTGGGCGGCGC 120
QY 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGAGGTGA 180
DB 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGAGGTGA 180
QY 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
DB 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
QY 241 TCGAGGCTTAAAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
DB 241 TCGAGGCTTAAAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
QY 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 339
DB 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 339

RESULT 5
US-09-878-281A-106

; Sequence 106, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 106
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-106

Query Match 74.4%; Score 252.8; DB 3; Length 340;
Best Local Similarity 83.5%; Pred. No. 76-64;
Matches 284; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTAAGCT 60
DB 1 CTCACGCTGACTGAAAAAGACATCAGGGTGCAGGAAGATCTATCATGTTGTAAGCT 60
QY 61 GGAACCCGAGCCGCAAGCAATATCCGCTCCACAGAGACTCTTACTTGGGCGGCGC 120
DB 61 GGAACCCGAGCCGCAAGCAATATCCGCTCCACAGAGACTCTTACTTGGGCGGCGC 120
QY 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGAGGTGA 180
DB 121 CATGATTAACAGCAAGGAGAGCTCTGCGGTATGAGAGTCCCGGAGCGAGGTGA 180
QY 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
DB 181 CACCAAGTTTCGGGAACACAGTGAAGCTGATCTTAAAGCCACCGAGCTACCAAGGAC 240
QY 241 TCGAGGCTTAAAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
DB 241 TCGAGGCTTAAAGACTGACCATGCTGTGCGGTGACGACTTGTGCTATGCGGCA 300
QY 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 340
DB 301 GAGCGAGGCTGAGAGAGATTTCCCAACCCCTCCGAGCC 340

RESULT 6
US-08-836-075A-87

; Sequence 87, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29, 775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 87:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-87

Query Match 73.6%; Score 250.2; DB 3; Length 340;
Best Local Similarity 83.2%; Pred. No. 4e-63;
Matches 282; Conservative 2; Mismatches 55; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
DB 1 CTCACCGCTAACGAAAGAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
OY 61 GGARCCGAGCCCGCAAAAGCAATATCCGCCCTCACAAGAGCTCTACTTGGCGGCC 120
DB 61 GGAGCCAGAGGCCCGCAAGCAATATCCGCCCTCACAAGAGCTCTATGTTGGCGGTC 120
OY 121 CATGTATAACAGCAAAAGGGAGCTCTGGGGGTATCGAGGTGCGCGGAGCGAGTGTA 180
DB 121 CATGTTTAAACAGCAAGGAGACTTATGTTGCTAACCGCAGGTCCCGCAAGCGCGCTCTA 180
OY 181 CACCAAGATTTCGGGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCTACCGAGG 240
DB 181 CACCAACGAGCTTCGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCGCTACAGAGC 240
OY 241 TGCAGGCTTAAAGAACTGCACATGCTGTCTGCGGTGACGACTTGTCGTATGCCGA 300
DB 241 GGCCGCGCTGAAGATTGCAATGCTGTGCGGGACGACTGTCGTATGCCGA 300
OY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGC 339
DB 301 GAGCGATGGCGTAGAGAGAGCCCGGAGCCCTCCAGC 339

RESULT 7

US-09-878-281A-108
Sequence 108, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 108
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-108

Query Match 73.4%; Score 249.6; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 5.9e-63;
Matches 282; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
DB 1 CTCACGCTTAACGAAAGAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
OY 61 GGARCCGAGCCCGCAAAAGCAATATCCGCCCTCACAAGAGCTCTACTTGGCGGCC 120
DB 61 GGAGCCGAGGCCCGCAAGCAATATCCGCCCTTAAAGAGAGCTCTACTGTTGGCGGTC 120

OY 121 CATGTATAACAGCAAAAGGGAGCTCTGGGGTATCGAGGTGCGCGGAGCGAGTGTA 180
DB 121 CATGATTAACAGCAAGGGAGACCTGTGGGTATCGAGATGCGGTGCGAGCGCGCTA 180
OY 181 CACCAAGATTTCGGGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCTACAGGGC 240
DB 181 CACCAAGCTTCGGGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCTATCAGAGC 240
OY 241 TGCAGGCTTAAAGAACTGCACATGCTGTCTGCGGTGACGACTTGTCGTATGCCGA 300
DB 241 GGCCGCGCTGAAGACTGCAATGTTGCTGTGCTGAGTATGATCTGATGCTGA 300
OY 301 GAGCGAGGCGGTAGAGAGATTCCCAACCCCTCCGAGC 340
DB 301 AAGCGATGGCGTAGAGAGAGCAAAAGAGCCCTCGAGGC 340

RESULT 8

US-09-878-281A-110
Sequence 110, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 110
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-110

Query Match 73.4%; Score 249.6; DB 3; Length 340;
Best Local Similarity 82.9%; Pred. No. 5.9e-63;
Matches 282; Conservative 2; Mismatches 56; Indels 0; Gaps 0;

OY 1 CTCACGGTGACTGAAAAAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
DB 1 CTCACGCTTAACGAAAGAGACATCAGGGTCGAGGAAGATCTATCATGTTTGACCT 60
OY 61 GGARCCGAGCCCGCAAAAGCAATATCCGCCCTCACAAGAGCTCTACTTGGCGGCC 120
DB 61 GGAGCCGAGGCCCGCAAGTATTAACCGCCCTTAAAGAGAGCTCTATGTTGGCGGTC 120
OY 121 CATGTATAACAGCAAAAGGGAGCTCTGGGGTATCGAGGTGCGCGGAGCGAGTGTA 180
DB 121 CATGATTAATAGCAAAAGAGACTGTGGGTATCGAGATGCGCGCAAGCGCGTCTA 180
OY 181 CACCAAGATTTCGGGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCTACAGGGC 240
DB 181 CACCAACGAGCTTCGAAACACAGTACCTGCTATCTTAAAGCCACCGAGCGCTACAGG 240
OY 241 TGCAGGCTTAAAGAACTGCACATGCTGTCTGCGGTGACGACTTGTCGTATGCCGA 300
DB 241 GTACAGGCTGAGAGACTGCACTATGCTGTATGTTGTAACAGACTGCTGTCTATGCCGA 300
OY 301 GAGCGAGGCGGTAGAGAGATTCCCAACCCCTCCGAGC 340
DB 301 GAGCGATGGCGTAGAGAGAGCAAAAGAGCCCTCGAGATC 340

RESULT 9

US-09-878-281A-201
Sequence 201, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

QY CTCACAGGTGATCTGAAAAGACATCAGGGTCGAGGAAGATCTATCAATGTTGTGACT 60
Db CTCACAGGTGATCTGAAAAGACATCAGGGTCGAGGAAGATCTATCAATGTTGTGACT 60
1 CTCACAGGTGATCTGAAAAGACATCAGGGTCGAGGAAGATCTATCAATGTTGTGACT 60
QY GGARCCGAGGCCCGCAAAACAATATCCGCCCTCACAGAGACTCTACTTGGCGCGGCC 120
Db GGARCCGAGGCCCGCAAAACAATATCTGCCCTAACAGAGACTCTATGCGGCGGCTCC 120
QY CATGTATTACACCAAGGGGAGCTCTGGGGGTATTCGAGGTGCGGCCGACGGAGTGTGA 180
Db CATGTATTACACCAAGGGGAGCTCTGGGGGTATTCGAGGTGCGGCCGACGGAGTGTGA 180

| QY | 1 | CTCCACGCGTGA | CTGAAAAAGG | CATCAGGGT | CGAGAAAG | ATCTATCA | ATGTTGTAC | CT | 60 |
|----|-----|--------------|--|---|---|--|--|----------|-----|
| Db | 1 | CTCCACGCGTGA | CCGAAAAGG <td>ATTCAGG<td>ACCGAAGAG<td>ATCTAC<td>CAAGTGTG<td>CACT</td><td>60</td></td></td></td></td> | ATTCAGG <td>ACCGAAGAG<td>ATCTAC<td>CAAGTGTG<td>CACT</td><td>60</td></td></td></td> | ACCGAAGAG <td>ATCTAC<td>CAAGTGTG<td>CACT</td><td>60</td></td></td> | ATCTAC <td>CAAGTGTG<td>CACT</td><td>60</td></td> | CAAGTGTG <td>CACT</td> <td>60</td> | CACT | 60 |
| QY | 61 | GGARCCCGAAG | CCCGCAAA | GCATATCC | CGCTCAC <td>AGAAAG</td> <td>CTTACTT</td> <td>GGGGGG</td> <td>120</td> | AGAAAG | CTTACTT | GGGGGG | 120 |
| Db | 61 | GGAGCCCGAAG | CCCGCAAG <td>TGATATCC</td> <td>CGCTCTA</td> <td>ACGAAAG<td>ATCTA</td><td>CGTGGCG</td><td>120</td></td> | TGATATCC | CGCTCTA | ACGAAAG <td>ATCTA</td> <td>CGTGGCG</td> <td>120</td> | ATCTA | CGTGGCG | 120 |
| QY | 121 | CATGTATTA | CAGCAAGG | GGGAGCT | CTCGGGT | TATCGAG | GTGCGCG <td>AGCGAG</td> <td>180</td> | AGCGAG | 180 |
| Db | 121 | CATGTATTA | CAACTT | CGAAGGGG <td>AGCTATG<td>CGGGCA</td><td>ACGAGGT<td>GTGCGCGA</td><td>180</td></td></td> | AGCTATG <td>CGGGCA</td> <td>ACGAGGT<td>GTGCGCGA</td><td>180</td></td> | CGGGCA | ACGAGGT <td>GTGCGCGA</td> <td>180</td> | GTGCGCGA | 180 |
| QY | 181 | CACCAACAG | TTTCGGGA | CACAGG <td>ACTGTAT</td> <td>TTAAGG<td>CCACG<td>CACTAC</td><td>240</td></td></td> | ACTGTAT | TTAAGG <td>CCACG<td>CACTAC</td><td>240</td></td> | CCACG <td>CACTAC</td> <td>240</td> | CACTAC | 240 |
| Db | 181 | CACCAACAG | CTTCGGGA | CACTGTA | ACGTGTAT | CTCAAG <td>CGCGT<td>TCGCGCTA</td><td>240</td></td> | CGCGT <td>TCGCGCTA</td> <td>240</td> | TCGCGCTA | 240 |
| QY | 241 | TCGAGG | CTTAAAG <td>ACTGCA</td> <td>CCATGCTG<td>CTGCGT<td>GGAGCA</td><td>CTTGAT</td><td>300</td></td></td> | ACTGCA | CCATGCTG <td>CTGCGT<td>GGAGCA</td><td>CTTGAT</td><td>300</td></td> | CTGCGT <td>GGAGCA</td> <td>CTTGAT</td> <td>300</td> | GGAGCA | CTTGAT | 300 |
| Db | 241 | CCGAGG | CTTAAAG <td>GTTCAG<td>CACTGCTG<td>CTGCTT<td>GGAGCA</td><td>GA</td><td>300</td></td></td></td> | GTTCAG <td>CACTGCTG<td>CTGCTT<td>GGAGCA</td><td>GA</td><td>300</td></td></td> | CACTGCTG <td>CTGCTT<td>GGAGCA</td><td>GA</td><td>300</td></td> | CTGCTT <td>GGAGCA</td> <td>GA</td> <td>300</td> | GGAGCA | GA | 300 |
| QY | 301 | GAGCGAG | GGCGGT <td>AGAGAG<td>ATTC</td><td>CCAA</td><td>CCCTTC</td><td>CGAG</td><td>360</td></td> | AGAGAG <td>ATTC</td> <td>CCAA</td> <td>CCCTTC</td> <td>CGAG</td> <td>360</td> | ATTC | CCAA | CCCTTC | CGAG | 360 |
| Db | 301 | GAGCGAG | CGCGGT <td>AGAGAG<td>ATTC</td><td>CGAAG</td><td>CCCTTC</td><td>CGAG</td><td>360</td></td> | AGAGAG <td>ATTC</td> <td>CGAAG</td> <td>CCCTTC</td> <td>CGAG</td> <td>360</td> | ATTC | CGAAG | CCCTTC | CGAG | 360 |

```

RESULT 12
US-09-878-281A-205
; Sequence 205, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A

```

;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 205
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-205

Query Match 72.0%; Score 244.8; DB 3; Length 340;
Best Local Similarity 82.1%; Pred. No. 1.5e-61;
Matches 279; Conservative 2; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGTGACTGAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGTGACCT 60
DB 1 CTCACGGTGAACGAAAGAGATATAGACCGAGAAAGAGATCTTCAAGTGTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGTGATATCCGCCCTTAAAGAAAGACTTACGTGGCGGTCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTGCCCGGAGCGAGTGA 180
DB 121 CATGTACAACCTCCAAAGGGGACCTATGCGGGCAAGAGGTGCCCGAAGCGGGTCTA 180
QY 181 CACCAAGTTTGGGAAACAGATGACCTGCTATCTTAAAGGCCACCGAGACTTACAGGGC 240
DB 181 CACCAAGCTTGGGAAACAGTGAACCTGTTATCTCAAGGCCCTTGGCGCTACTAGAGC 240
QY 241 TGCAGGCTTAAAGACATGCAACCATGCTGTCTGCGGTGACGACTTGTGTCATGCCGA 300
DB 241 GCGAGGTGTGAAGAGTTGACGATCTGGTTTGTGGAAGCGACTTATGTCATCTGCGA 300
QY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGCC 340
DB 301 GAGCGGCGGCTTAGAGAGAGATGCAAGACCTCCGAGCC 340

RESULT 13

US-09-878-281A-203
;; Sequence 203, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 203
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
US-09-878-281A-203

Query Match 71.7%; Score 243.8; DB 3; Length 340;
Best Local Similarity 82.0%; Pred. No. 2.9e-61;
Matches 278; Conservative 2; Mismatches 59; Indels 0; Gaps 0;

QY 1 CTCACGGTGACTGAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGTGACCT 60
DB 1 CTCACAGTGAAGTGAAGAGACATCAGGGTGGAGAGAGATCTTCAAGTGTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGAGCCCGAAGCCCGCAAGTGAATATCTGCCCTCACTGAAGACTTATGTGGCGGTCC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTGCCCGGAGCGAGTGA 180
DB 121 CATGCAACAACAGCAGGAGGAGACTTATGCGGGTACCTAGATGCCGCGAGCGGTATA 180

QY 181 CACCACAAGTTTGGGAAACAGTGAACCTGCTATCTTAAAGCCACCGCAGTACAGGGC 240
DB 181 CACCACAAGTTTGGGAAACAGTGAACCTGCTATCTTAAAGCCACCGCAGTACAGGGC 240
QY 241 TGCAGGCTTAAAGACTGACACCATGCTGTCTGCGGTGAGAGACTTGTCTATGCCGA 300
DB 241 CGTGGCTTAAAGACTGACACCATGCTGTCTGCGGTGAGAGACTTGTCTATGCCGA 300
QY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGC 339
DB 301 AAGCAATGTGTCCAGAGAGACCGCCCAAGCCCTCGAGC 339

RESULT 14

US-09-878-281A-211
;; Sequence 211, Application US/09878281A
;; Patent No. 6762024
;; GENERAL INFORMATION:
;; APPLICANT: Immunogenetics N.V.
;; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
;; FILE REFERENCE: 35
;; CURRENT APPLICATION NUMBER: US/09/878,281A
;; CURRENT FILING DATE: 2001-06-12
;; NUMBER OF SEQ ID NOS: 284
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 211
;; LENGTH: 340
;; TYPE: DNA
;; ORGANISM: hepatitis C virus
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (11)-(11)
;; OTHER INFORMATION: "n" is any nucleotide
;; NAME/KEY: misc feature
;; LOCATION: (327)-(327)
;; OTHER INFORMATION: "n" is any nucleotide
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (333)-(334)
;; OTHER INFORMATION: "n" is any nucleotide
;; NAME/KEY: misc feature
;; LOCATION: (340)-(340)
;; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 69.6%; Score 236.6; DB 3; Length 340;
Best Local Similarity 80.2%; Pred. No. 3.6e-59;
Matches 272; Conservative 2; Mismatches 65; Indels 0; Gaps 0;

QY 1 CTCACGGTGACTGAAAAGACATCAGGGTGGAGAGAGATCTTCAATGTTGTGACCT 60
DB 1 CTCGACTGTGNCAGAGAGACATCAGGAGAGAGAGATCTTCAATGTTGTGACCT 60
QY 61 GGARCCCGAAGCCCGCAAAAGCAATATCCGCCCTTCAAGAGAGCTTACTTGGCGGCC 120
DB 61 GGARCCCGAAGCCCGCAAGTGAATATCCGCCCTTCAAGAGAGCTTATGTGGCGAGC 120
QY 121 CATGTATTAACAGCAAAAGGGAGCTCTGCGGGTATCGAGGTGCCCGGAGCGAGTGA 180
DB 121 CATGTTAAACAGCAAAAGGAGACTGTGCGCAACAAGCGGGTCCCGCAAGCGGGTGT 180
QY 181 CACCAAGTTTGGGAAACAGTGAACCTGCTATTTAAGCCACCGAGCTTACAGGGC 240
DB 181 CACCAAGCTTGGGAAACAGTGAACCTGCTTAAAGCCACAGCTGCTACTAGAGC 240
QY 241 TGCAGGCTTAAAGACTGACACCATGCTGTCTGCGGTGAGAGACTTGTCTATGCCGA 300
DB 241 AGCGGCTTAAAGAGTTTCAACATGCTGTCTGCGGTGAGAGACTTATGTCATCTGCGA 300
QY 301 GAGCGAGGCGGTAGAGAGAGATTCCCAACCCCTCCGAGC 339

Db 301 GAGCGCGGTGTGAGAGAGATCCCAAGCCGNNCGACC 339

RESULT 15

US-09-878-281A-209
; Sequence 209, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 209
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (13)..(13)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (65)..(65)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (72)..(72)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (277)..(277)
; OTHER INFORMATION: "n" is any nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (337)..(337)
; OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-209

Query Match 66.6%; Score 226.6; DB 3; Length 340;
Best Local Similarity 78.2%; Pred. No. 2.9e-56;
Matches 265; Conservative 2; Mismatches 72; Indels 0; Gaps 0;

QY 1 CTCACGGTGAAGCAAGACATCAGGGTCGAGAGAGATCTATCAATGTTGACCT 60
DB 1 CCCGACCGTGCAGAGGAGACATCAGGGTCGAGAGAGATCTATCAATGTTGACCT 60
QY 61 GGAACCGGAGCGCGCAAGCAATATCGCCCTCAAGAGAGCTCTACTCTTGGGCGGCC 120
DB 61 GGAACCGGAGCGCGCAAGCAATATCGCCCTCAAGAGAGCTCTACTCTTGGGCGGCC 120
QY 121 CATGTATTAACAGCAAGGAGCTCTGCGGTATCGAGGTGCGCGAGCGAGGTGA 180
DB 121 TATGCAACAAGCAAGGAGCTCTGCGGTATCGAGGTGCGCGAGCGAGGTGA 180
QY 181 CACCAAGATTGCGGAAACAGTGAATCTTATTAAGCCACCGAGCTACCAAGGC 240
DB 181 CACCAAGATTGCGGAAACAGTGAATCTTATTAAGCCACCGAGCTACCAAGGC 240
QY 241 TGCAGGCTTAAAGACTGACCATGCTGCTGCGGTGAGAGACTTGTGTATGCGCGA 300
DB 241 CCGGCTTGAAGATTCACCATCTGCTGCGGTGAGAGACTTGTGTATGCGCGA 300
QY 301 GAGCGAGGCGTGAAGAGATTCACCATCTGCGGAGC 339
DB 301 GAGCGAGGCGTGAAGAGATTCACCATCTGCGGAGC 339

Db 301 GAGCATTTGCATAGACGAGACAGCAAGCCCTCCGAC 339

Search completed: January 11, 2006, 14:46:38
Job time: 101.519 secs

the huge blank (uspio)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-87
Perfect score: 340
Sequence: 1 ctccacgcgaaccgaaggg.....accgcgcgaaccctcaagct 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA:*

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3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
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8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 340 | 100.0 | 340 | 3 | US-08-836-075A-87 |
| 2 | 273.4 | 80.4 | 340 | 3 | US-09-878-281A-112 |
| 3 | 265.4 | 78.1 | 340 | 3 | US-09-878-281A-106 |
| 4 | 262.8 | 77.3 | 340 | 3 | US-08-836-075A-83 |
| 5 | 259 | 76.2 | 340 | 3 | US-09-878-281A-108 |
| 6 | 258.4 | 76.0 | 340 | 3 | US-09-878-281A-116 |
| 7 | 258 | 75.9 | 340 | 3 | US-09-878-281A-110 |
| 8 | 256.8 | 75.5 | 340 | 3 | US-09-878-281A-201 |
| 9 | 256.8 | 75.5 | 340 | 3 | US-09-878-281A-203 |
| 10 | 250.2 | 73.6 | 340 | 3 | US-08-836-075A-85 |
| 11 | 249.2 | 73.3 | 340 | 3 | US-09-878-281A-209 |
| 12 | 244.6 | 71.9 | 340 | 3 | US-09-878-281A-207 |
| 13 | 242.2 | 71.2 | 340 | 3 | US-09-878-281A-211 |
| 14 | 233.4 | 68.6 | 340 | 3 | US-09-878-281A-114 |
| 15 | 233.4 | 68.6 | 340 | 3 | US-09-878-281A-205 |
| 16 | 179 | 52.6 | 340 | 3 | US-08-441-971-20 |
| 17 | 179 | 52.6 | 340 | 3 | US-08-221-653-20 |
| 18 | 179 | 52.6 | 340 | 3 | US-08-442-144A-20 |
| 19 | 179 | 52.6 | 340 | 3 | US-08-441-970-20 |
| 20 | 175.8 | 51.7 | 340 | 3 | US-09-878-281A-217 |
| 21 | 171 | 50.3 | 340 | 3 | US-08-441-971-21 |
| 22 | 171 | 50.3 | 340 | 3 | US-08-221-653-21 |
| 23 | 171 | 50.3 | 340 | 3 | US-08-442-144A-21 |
| 24 | 171 | 50.3 | 340 | 3 | US-08-441-970-21 |

| | | | | | | |
|----|-------|------|------|---|--------------------|-------------------|
| 25 | 169.6 | 49.9 | 340 | 3 | US-08-836-075A-63 | Sequence 63, Appl |
| 26 | 169.4 | 49.8 | 340 | 3 | US-08-441-971-22 | Sequence 22, Appl |
| 27 | 169.4 | 49.8 | 340 | 3 | US-08-221-653-22 | Sequence 22, Appl |
| 28 | 169.4 | 49.8 | 340 | 3 | US-08-442-144A-22 | Sequence 22, Appl |
| 29 | 169.4 | 49.8 | 340 | 3 | US-08-441-970-22 | Sequence 22, Appl |
| 30 | 168.8 | 49.6 | 340 | 3 | US-08-221-653-17 | Sequence 17, Appl |
| 31 | 168.8 | 49.6 | 340 | 3 | US-08-442-144A-17 | Sequence 17, Appl |
| 32 | 168.8 | 49.6 | 340 | 3 | US-08-441-970-17 | Sequence 17, Appl |
| 33 | 168.6 | 49.6 | 340 | 3 | US-08-836-075A-105 | Sequence 105, App |
| 34 | 167.8 | 49.4 | 1716 | 3 | US-09-674-677-6 | Sequence 6, Appl1 |
| 35 | 167.4 | 49.2 | 335 | 3 | US-08-836-075A-101 | Sequence 97, App |
| 36 | 167.2 | 49.2 | 340 | 3 | US-08-836-075A-97 | Sequence 81, Appl |
| 37 | 167.2 | 49.1 | 340 | 3 | US-08-836-075A-81 | Sequence 99, Appl |
| 38 | 166.8 | 49.1 | 340 | 3 | US-08-441-971-2 | Sequence 2, Appl1 |
| 39 | 166.8 | 49.1 | 340 | 3 | US-08-221-653-2 | Sequence 2, Appl1 |
| 40 | 165.2 | 48.6 | 340 | 3 | US-08-442-144A-2 | Sequence 2, Appl1 |
| 41 | 165.2 | 48.6 | 340 | 3 | US-08-441-970-2 | Sequence 2, Appl1 |
| 42 | 165.2 | 48.6 | 401 | 3 | US-08-444-818-59 | Sequence 59, Appl |
| 43 | 165.2 | 48.6 | 1788 | 2 | US-08-722-806A-1 | Sequence 1, Appl1 |
| 44 | 165.2 | 48.6 | | | | |
| 45 | 165.2 | 48.6 | | | | |

ALIGNMENTS

RESULT 1
US-08-836-075A-87
; Sequence 87, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESS: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 87:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-87

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 4.1e-81;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
    |||
DB 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
QY 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
    |||
DB 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
QY 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
    |||
DB 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
QY 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAGACT 340
    |||
DB 301 GAGCGATGGCGTGAAGAGAGACCGCGGAGCCCTCCAGACT 340
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RESULT 2

US-09-878-281A-112
; Sequence 112, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 112
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-112

Query Match 80.4%; Score 273.4; DB 3; Length 340;
Best Local Similarity 87.9%; Pred. No. 2.1e-63;
Matches 298; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

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QY 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
    |||
DB 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
QY 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
    |||
DB 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
QY 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
    |||
DB 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
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DB 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
QY 301 GAGCGATGGCGTGAAGAGAGCAACCGCGGAGCCCTCCAGACT 339
    |||
DB 301 GAGCGATGGCGTGAAGAGAGCAACCGCGGAGCCCTCCAGACT 339
```

RESULT 3

US-09-878-281A-106
; Sequence 106, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Imogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 106
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-106

Query Match 78.1%; Score 265.4; DB 3; Length 340;
Best Local Similarity 86.4%; Pred. No. 2.8e-61;
Matches 293; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

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QY 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
    |||
DB 1 CTCACCGCTAACCGAAGGACATCAGGGTCGAGAGGAGGCTCATGCTGTGTGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
    |||
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGAGAGACTCTATGTGGCGGTCC 120
QY 121 CATGTTTAAACAGCAAGGAGACCTATGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
    |||
DB 121 CATGTTTAAACAGCAAGGAGACCTATGCTACCGCAGGTGCCGCAAGCGCGCTCTA 180
QY 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
    |||
DB 181 CACCAACGAGCTTCGGAACACATGCTGCTACCTCAAGGCGAGCGCGCTTACAGAGC 240
QY 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
    |||
DB 241 GGCGGCGCTGAAGATTGCAATGCTGTTGCGGGGAGCAGACTGTCATCGCAGCA 300
QY 301 GAGCGATGGCGTGAAGAGAGCAACCGCGGAGCCCTCCAGACT 339
    |||
DB 301 GAGCGATGGCGTGAAGAGAGCAACCGCGGAGCCCTCCAGACT 339
```

RESULT 4
US-08-836-075A-83
; Sequence 83, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

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/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Microsoft Word 6.0 / ASCII text output
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/836,075A
/ FILING DATE: 21 Apr 1997
/ PRIORITY APPLICATION DATA:
/ APPLICATION NUMBER: PCT/EP95/04155
/ FILING DATE: 23 Oct 1995
/ PRIORITY APPLICATION DATA:
/ APPLICATION NUMBER: BP 94870166.9
/ FILING DATE: 21 Oct 1994
/ PRIORITY APPLICATION DATA:
/ APPLICATION NUMBER: BP 95870076.7
/ FILING DATE: 28 Jun 1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: KAMMERER, PATRICIA A.
/ REGISTRATION NUMBER: 29,775
/ REFERENCE/DOCKET NUMBER: INNS:004
/ INFORMATION FOR SEQ ID NO: 82:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHEetical: NO
/ ANTI-SENSE: NO
/
/ US-08-836-075A-83

```

```

Query Match      77.3%; Score 262.8; DB 3; Length 340;
Best Local Similarity 85.8%; Pred. No. 1.4e-60;
Matches 291; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 1 CTCACCCGTAAACCGAAGGAGCATCAGGCTCGAGAGAGAGGCTCTACAGTGTGGATCT 60
DB 1 CTCACCTGTAAACCGAAGGAGCATCAGGCTCGAGAGAGAGGCTCTACAGTGTGGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGACTTATGTGGGGGCTCC 120
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
QY 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGAGAGAGAGAGAGAGAGAGAGAG 180
DB 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGAGAGAGAGAGAGAGAGAGAGAG 180
QY 181 CACCAACAGCTTCGGAACACACACTGCTACTACCTCAAGGCGAGCGCGCTACCAAGAGC 240
DB 181 CACCAACAGCTTCGGAACACACACTGCTACTACCTCAAGGCGAGCGCGCTACCAAGAGC 240
QY 241 GGCCGGCCCTGAAGATTGCAATATGCTGTTTGGCGGAGCGACTGCTGCTCATGCGCAG 300
DB 241 GGCCGGCCCTGAAGATTGCAATATGCTGTTTGGCGGAGCGACTGCTGCTCATGCGCAG 300
QY 301 GAGCGATGCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 339
DB 301 GAGCGATGCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 339

RESULT 5
US-09-878-281A-108
/ Sequence 108, Application US/09878281A
/ Patent No. 6762024
/ GENERAL INFORMATION:
/ APPLICANT: Immunogenetics N.V.
/ TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
/ TITLE OF INVENTION: and therapy
/ FILE REFERENCE: 35
/ CURRENT APPLICATION NUMBER: US/09/878,281A
/ CURRENT FILING DATE: 2001-06-12
/ NUMBER OF SEQ ID NOS: 284

```

```

/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 108
/ LENGTH: 340
/ TYPE: DNA
/ ORGANISM: hepatitis C virus
/
/ US-09-878-281A-108

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```

Query Match      76.2%; Score 259; DB 3; Length 340;
Best Local Similarity 85.3%; Pred. No. 1.4e-59;
Matches 289; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 1 CTCACCCGTAAACCGAAGGAGCATCAGGCTCGAGAGAGAGGCTCTACAGTGTGGATCT 60
DB 1 CTCACCTGTAAACCGAAGGAGCATCAGGCTCGAGAGAGAGGCTCTACAGTGTGGATCT 60
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
QY 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
DB 61 GGAGCCAGAGGCCCCGCAAGGCAATATCCGCCCTCAGCGAGAGAGACTTATGTGGGGGCTCC 120
QY 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGAGAGAGAGAGAGAGAGAGAGAG 180
DB 121 CATGTTTAAACAGCAAGGAGAGACTTATGTGGCTACCGAGAGAGAGAGAGAGAGAGAGAG 180
QY 181 CACCAACAGCTTCGGAACACACACTGCTACTACCTCAAGGCGAGCGCGCTACCAAGAGC 240
DB 181 CACCAACAGCTTCGGAACACACACTGCTACTACCTCAAGGCGAGCGCGCTACCAAGAGC 240

RESULT 6
US-09-878-281A-116
/ Sequence 116, Application US/09878281A
/ Patent No. 6762024
/ GENERAL INFORMATION:
/ APPLICANT: Immunogenetics N.V.
/ TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
/ TITLE OF INVENTION: and therapy
/ FILE REFERENCE: 35
/ CURRENT APPLICATION NUMBER: US/09/878,281A
/ CURRENT FILING DATE: 2001-06-12
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 116
/ LENGTH: 340
/ TYPE: DNA
/ ORGANISM: hepatitis C virus
/
/ US-09-878-281A-116

```

Db 181 CACCAACGCTTCGGGAACAATGACGTGCTACTTAAGGCTCAGACCATCAGGd 240
Qy 241 GGGCGCCCGGAGAGTATGCAATGCTGTTTGGCGGAGCACTGCTGATCGCAGA 300
Db 241 TCGGGGCTGAAGATTGACATCTGTTTGGCTGATGCTATGCTGATGCGCA 300
Qy 301 GAGCGATGGCTGACGAGACCGCCGACCTCCAAAGT 340
Db 301 GAGCGGTGGCTTGAAGAGGACAAACGACCTCCGAGCT 340

RESULT 7

US-09-878-281A-110
; Sequence 110, Application US/09878281A
; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 110

; LENGTH: 340

; TYPE: DNA

; ORGANISM: hepatitis C virus

US-09-878-281A-110

Query Match 75.9%; Score 258; DB 3; Length 340;
Best Local Similarity 85.2%; Pred. No. 2,6e-59;
Matches 288; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGACATCAGGCTCGAGAGAGTCTATCACTGTTGATCT 60
Db 1 CTCACCTGTAAACGAAAGGACATCAGGCTCGAGAGAGTCTATCACTGTTGATCT 60
Qy 61 GGAGCCGAGAGCCCGCAAGGATATCCGCCCTCAGAGAGAGCTGATGCGGCGTCC 120
Db 61 GGAGCCGAGAGCCCGCAAGGATATCCGCCCTCAGAGAGAGCTGATGCGGCGTCC 120
Qy 121 CATGTTTAAACAGCAAGGAGACCTATGCTGCTACCGCAGGTGCGCGCAAGCGGCTCTA 180
Db 121 CATGCTAATAGCAAGGAGAGACCTGTCGGGATATGCAATGCGCGCAAGCGGCTCTA 180
Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCGCGCTACCAAGC 240
Db 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCGCGCTACCAAGC 240
Qy 241 GGGCGGCTGGAAGATTTGCAATGCTGTTTGGGGAAGCACTGCTGCTATCGCAGA 300
Db 241 GTGAGGGCTGAGAGACTGCACTATGCTGCTATGCTGAGAGACTGCTGCTATGCCA 300
Qy 301 GAGCGATGGCTGACGAGACCGCCGACCTCCAAAG 338
Db 301 GAGCGATGGCTGAGAGAGGACAAACGACCTCCGAG 338

RESULT 8

US-09-878-281A-201
; Sequence 201, Application US/09878281A
; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 201

; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-201

Query Match 75.5%; Score 256.8; DB 3; Length 340;
Best Local Similarity 84.7%; Pred. No. 5,4e-59;
Matches 288; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGAGCATCAGGCTGAGAGAGAGTCTATCACTGTTGATCT 60
Db 1 CTCACCTGTAAACGAAAGGAGCATCAGGCTGAGAGAGAGTCTATCACTGTTGATCT 60
Qy 61 GGAGCCGAGAGCCCGCAAGGATATCCGCCCTCAGAGAGAGCTTATGTTGGCGTCC 120
Db 61 GGAGCCGAGAGCCCGCAAGGATATCCGCCCTCAGAGAGAGCTTATGTTGGCGTCC 120
Qy 121 CATGTTTAAACAGCAAGGAGACTATGCTGCTACCGCAGGTGCGCGCAAGCGGCTCTA 180
Db 121 TATGTAAATAGCAAGGAGAGCTTTGCGGGTATGCGAGGTGCGCGCAAGCGGCTCTA 180
Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCAAGGCGCGCTACCAAGC 240
Db 181 TACCAACGCTTCGGAAACACTGACCTGCTACTCAAGGCGCGCTACCAAGC 240
Qy 241 GGGCGGCTGGAAGATTTGCAATGCTGTTTGGGGAAGCACTGCTGCTATCGCAGA 300
Db 241 TCGGGGCTGGAAGAGACTGCAACATGCTGTTTGGGGTGAACAATTATGCTGATCGTGA 300
Qy 301 GAGCGATGGCTGACGAGACCGCCGACCTCCAAAGT 340
Db 301 AAGCGGTGGCTGAGAGAGCAAGCGAGCCCTCGAGCT 340

RESULT 9

US-09-878-281A-203
; Sequence 203, Application US/09878281A
; Patent No. 6762024

; GENERAL INFORMATION:

; APPLICANT: Immunogenetics N.V.

; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph

; FILE REFERENCE: 35

; CURRENT APPLICATION NUMBER: US/09/878,281A

; NUMBER OF SEQ ID NOS: 284

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 203

; LENGTH: 340

; TYPE: DNA

; ORGANISM: hepatitis C virus

US-09-878-281A-203

Query Match 75.5%; Score 256.8; DB 3; Length 340;
Best Local Similarity 84.7%; Pred. No. 5,4e-59;
Matches 288; Conservative 0; Mismatches 52; Indels 0; Gaps 0;

Qy 1 CTCACCGTAAACGAAAGGAGCATCAGGCTGAGAGAGAGTCTATCACTGTTGATCT 60
Db 1 CTCACAGTGAAGTAAAGAGACATCAGGCTGAGAGAGAGTCTATCACTGTTGATCT 60
Qy 61 GGAGCCGAGAGCCCGCAAGGATATCCGCCCTCAGAGAGAGACTTATGTTGGCGTCC 120
Db 61 GGAGCCGAGAGCCCGCAAGGATATCTGCGCTCACTAAAGACTTATGTTGGCGTCC 120
Qy 121 CATGTTTAAACAGCAAGGAGACTATGCTGCTACCGCAGGTGCGCGCAAGCGGCTCTA 180
Db 121 CATGCAACAAGCAAGGAGAGACTTATGCGGGTATCGGTAGAGTCCCGGAGCGGCTCTA 180
Qy 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCGCGCTACCAAGC 240
Db 181 CACCAACGCTTCGGAAACACTGACCTGCTACTCTCAAGGCGCGCTACCAAGC 240

| | | | | | |
|-----------------------|----------------|---|--|--|-----|
| Query Match | 71.9% | Score 244.6 | DB 3 | Length 340 | |
| Best Local Similarity | 82.6% | Pred. No. 9,5e-56 | | | |
| Matches 280 | Conservative 0 | Mismatches 55 | Indels 0 | Gaps 0 | |
| QY | 1 | CTCCACCGTAA | CCGAAGGACATCAGGGTCGAGGAGGAGGTCTATACAGTGTGTGATCT | 60 | |
| Db | 1 | CTCCACCGGTGA | CTGAAGGGACATTAGGGTCGAGGAGAGATCTATCAAGTGTGTGACCT | 60 | |
| QY | 61 | GGAGCCAGAGGCCCGCCAMGGCAATATCCGCCCTCAGCGAGAGACTTATATGTGGCGGTCC | 120 | | |
| Db | 61 | GGAGCCCGAGGCA | CCCAAGGTGATTCGCTTCCACAAAAGACTCTCAAGAGGGCGGCC | 120 | |
| QY | 121 | CATGTTTAA | CCAGGAGGAGACCTATGTGGCTACCGCGAGGTGGCGCGCAACGGCGTCTA | 180 | |
| Db | 121 | CATGATATA | CCAGCAAGGGGAGCTATATGGCGGCTTGCGAGGTGCGCGCAAGCGGGGTATA | 180 | |
| QY | 181 | CACCA | CCAGCTTCGGAAAACACACTGACCTGCTACTCTCAAGGCCAAGCGCGCTACCAAGC | 240 | |
| Db | 181 | CACCA | CAAGCTTCGGGAAACCGGTGACATGCTACTTAAAGCCACAGCAGCCACCAAGGC | 240 | |
| QY | 241 | GGCGGCGCTGA | AGATTGCA | CAATGCTGTGTGGCGGAGCAAGCTGTGTCTATCGCAGA | 300 |
| Db | 241 | TGCAGGGCTGA | AAAGATTGCACTATGCTGTGTATGCGGTACGACCTAATGCTATATGCGCA | 300 | |
| QY | 301 | GAGCGATGCGCTG | GACAGAGACCGCGGAGCCTTCCAAGC | 339 | |
| Db | 301 | AAGCGGTGCGCTG | GAGAGAGACGCCCGAGCCTTCCGAGC | 339 | |

```

: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: Patentin version 3.1
: SEQ ID NO 211
: LENGTH: 340
: TYPE: DNA
: ORGANISM: hepatitis C virus
: FEATURE:
: NAME/KEY: misc feature
: LOCATION: (11)..(11)
: OTHER INFORMATION: "n" is any nucleotide
: FEATURE:
: NAME/KEY: misc feature
: LOCATION: (327)..(327)
: OTHER INFORMATION: "n" is any nucleotide
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (333)..(334)
: OTHER INFORMATION: "n" is any nucleotide
: FEATURE:
: NAME/KEY: misc feature
: LOCATION: (340)..(340)
: OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match          71.2%; Score 242.2; DB 3; Length 340;
Best Local Similarity 81.7%; Pred. No. 4.1e-55;
Matches 277; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY      1 CTCACCCGTAACGGAAAGGACATCAGGCTCGAGAGAGAGGTCTATCAGTGTGTGATCT 60
DB      1 CTGCACTGTGNCAGAGAGGACATCAGACAGAGGAGAGAGTCTATCATGTTGGCACT 60

QY      61 GGAAGCCAGAGCCCGCAGGCAATATCCGCCCTTCAGGAGAGACTCTATGTGGCGGTCC 120
DB      61 GGAACCCGAAAGCCCGCAGGTAATCAACGCCCTTCACTGAGAGACTCTATGTGGCGGACC 120

QY      121 CATGTTTAACGAGCAAGGAGGACCTATGTGCTACCGAGGTGCGCGCAAGCGGCGTCTA 180
DB      121 CATGTTTAACGAGCAAGGAGGAGACCTGTGCGACAAACGCCGTGTGCGCGCAAGCGGCGTCT 180

QY      181 CACCACCAAGCTTCGGAACAACACTGACCTCTACTCAAGGCCACGGCCGCTACAGAGC 240
DB      181 CACCACCAAGCTTCGGGAACAACACTGACGTCTACTTAAGGCCACAGCTCTACTAGAGC 240

QY      241 GGGCGGCTGAAGAGATTGCAACATGCTGTTTGGGGGAGACGACCTGTCATTCGACA 300
DB      241 AGCGGCTTAAGAGATTGCAACATGCTGTTTGGGGGAGACGACTTACTTATTTCCGA 300

QY      301 GAGCGATGGCGTGGAGCAGAGACCGCGGACCGCTCCAGC 339
DB      301 GAGCGCGGTGTGGAGAGATCCCANAGACC 339

RESULT 14
US-09-878-281A-114
: Sequence 114, Application US/09878281A
: Patent No. 6762024
: GENERAL INFORMATION:
: APPLICANT: Immunogenetics N.V.
: TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
: TITLE OF INVENTION: and therapy
: FILE REFERENCE: 35
: CURRENT APPLICATION NUMBER: US/09/878,281A
: CURRENT FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 284
: SOFTWARE: Patentin version 3.1
: SEQ ID NO 114
: LENGTH: 340
: TYPE: DNA
: ORGANISM: hepatitis C virus
US-09-878-281A-114

Query Match          68.6%; Score 233.4; DB 3; Length 340;

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Best Local Similarity 80.5%; Pred. No. 9e-53;
Matches 273; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

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OY 1 CTCACCCGTAACCGAAGGAGATCATCGAGGTCGAGGAGGCTACATGTTGATCT 60
Db 1 CTCACCGGTAACCGAAGGAGATCATCGAGGTCGAGGAGGCTACATGTTGATCT 60
OY 61 GGAGCCAGAGGCCCCGCAAGCAATATCCGCCCTCACGAGAGACTTATGTGTGGCGTCC 120
Db 61 GGAGCCCGAAGCCCCGCAAGGATATCCGCCCTCACGAGAGACTTATGTGTGGCGTCC 120
OY 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCGCGCAAGCGCGTCTTA 180
Db 121 CATGTAAACATCCAGGAGGACCTATGTGGCGCAACGAGGTGCGCGCAAGCGCGTCTTA 180
OY 181 CACCAACCACTTCGGAACACACTGACCTGCTACTCAAGGCCACGCGCTACCAAGC 240
Db 181 CACCAACCACTTCGGAACACACTGTAACGTTATCTCAAGGCCGTTGCGCTACCAAGC 240
OY 241 GGCCGGCTGAAGATTGCAATGTGTTGCGGGAGACGCTGTGTCATCGCAGA 300
Db 241 GCGAGGCTGAAGATTGCAATGTGTTGCGGGAGACGCTGTGTCATCGCAGA 300
OY 301 GAGCGATGGCTGAGCAGAGACCGCCGAGCCCTCCAGC 339
Db 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339
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RESULT 15

US-09-878-281A-205
; Sequence 205, Application US/09878281A
; Patent No. 6762024
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
; TITLE OF INVENTION: and therapy
; FILE REFERENCE: 35
; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 205
; LENGTH: 340
; TYPE: DNA
; ORGANISM: hepatitis C virus
US-09-878-281A-205

Query Match 68.6%; Score 233.4; DB 3; Length 340;
Best Local Similarity 80.5%; Pred. No. 9e-53;
Matches 273; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

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OY 1 CTCACCCGTAACCGAAGGAGATCATCGAGGTCGAGGAGGCTACATGTTGATCT 60
Db 1 CTCACCGGTAACCGAAGGAGATCATCGAGGTCGAGGAGGCTACATGTTGATCT 60
OY 61 GGAGCCAGAGGCCCCGCAAGCAATATCCGCCCTCACGAGAGACTTATGTGTGGCGTCC 120
Db 61 GGAGCCCGAAGCCCCGCAAGGATATCCGCCCTCACGAGAGACTTATGTGTGGCGTCC 120
OY 121 CATGTTTAAACAGCAAGGAGACCTATGTGGCTACCGCAGGTGCGCGCAAGCGCGTCTTA 180
Db 121 CATGTAAACATCCAGGAGGACCTATGTGGCGCAACGAGGTGCGCGCAAGCGCGTCTTA 180
OY 181 CACCAACCACTTCGGAACACACTGACCTGCTACTCAAGGCCACGCGCTACCAAGC 240
Db 181 CACCAACCACTTCGGAACACACTGTAACGTTATCTCAAGGCCGTTGCGCTACCAAGC 240
OY 241 GGCCGGCTGAAGATTGCAATGTGTTGCGGGAGACGCTGTGTCATCGCAGA 300
Db 241 GCGAGGCTGAAGATTGCAATGTGTTGCGGGAGACGCTGTGTCATCGCAGA 300
OY 301 GAGCGATGGCTGAGCAGAGACCGCCGAGCCCTCCAGC 339
Db 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339
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Db 301 GAGCGGCGGCTGAGAGAGATGCAAGACCTCCGAGC 339

Search completed: January 11, 2006, 14:46:39
UOB time : 101.519 Secs

Large Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 : Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-89

Perfect score: 340

Sequence: 1 ctcaacagctcacgagcgagcg.....acactagtcacgtcgagct 340

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PC/US COMB.seq:*
7: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/RE COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------------------|-------------------|
| 1 | 338 | 99.4 | 340 | US-08-836-075A-89 | Sequence 89, Appl |
| 2 | 217.6 | 64.0 | 340 | US-08-836-075A-93 | Sequence 93, Appl |
| 3 | 208.2 | 61.2 | 340 | US-08-836-075A-91 | Sequence 91, Appl |
| 4 | 169.2 | 49.8 | 340 | US-08-836-075A-57 | Sequence 57, Appl |
| 5 | 165.8 | 48.8 | 340 | US-08-836-075A-61 | Sequence 61, Appl |
| 6 | 164 | 48.0 | 340 | US-08-836-075A-55 | Sequence 55, Appl |
| 7 | 163.2 | 48.0 | 340 | US-08-836-075A-53 | Sequence 53, Appl |
| 8 | 161 | 47.4 | 340 | US-08-441-971-3 | Sequence 3, Appl |
| 9 | 161 | 47.4 | 340 | US-08-441-971-6 | Sequence 6, Appl |
| 10 | 161 | 47.4 | 340 | US-08-221-653-3 | Sequence 3, Appl |
| 11 | 161 | 47.4 | 340 | US-08-221-653-6 | Sequence 6, Appl |
| 12 | 161 | 47.4 | 340 | US-08-442-144A-3 | Sequence 3, Appl |
| 13 | 161 | 47.4 | 340 | US-08-442-144A-6 | Sequence 6, Appl |
| 14 | 161 | 47.4 | 340 | US-08-441-970-3 | Sequence 3, Appl |
| 15 | 161 | 47.4 | 340 | US-08-441-970-6 | Sequence 6, Appl |
| 16 | 158.4 | 46.6 | 1782 | US-09-597-877-11 | Sequence 11, Appl |
| 17 | 157.8 | 46.4 | 340 | US-08-441-971-2 | Sequence 2, Appl |
| 18 | 157.8 | 46.4 | 340 | US-08-221-653-2 | Sequence 2, Appl |
| 19 | 157.8 | 46.4 | 340 | US-08-442-144A-2 | Sequence 2, Appl |
| 20 | 157.8 | 46.4 | 340 | US-08-441-970-2 | Sequence 2, Appl |
| 21 | 157.8 | 46.4 | 9413 | US-09-827-688-6 | Sequence 6, Appl |
| 22 | 155.6 | 45.8 | 340 | US-08-836-075A-87 | Sequence 87, Appl |
| 23 | 154.4 | 45.4 | 340 | US-08-836-075A-63 | Sequence 63, Appl |
| 24 | 153.6 | 45.2 | 340 | US-08-441-971-12 | Sequence 12, Appl |

| | | | | | |
|----|-------|------|-------|--------------------|-------------------|
| 25 | 153.6 | 45.2 | 340 | US-08-836-075A-79 | Sequence 79, Appl |
| 26 | 153.6 | 45.2 | 340 | US-08-221-653-12 | Sequence 12, Appl |
| 27 | 153.6 | 45.2 | 340 | US-08-442-144A-12 | Sequence 12, Appl |
| 28 | 153.6 | 45.2 | 340 | US-08-441-970-12 | Sequence 12, Appl |
| 29 | 153 | 45.0 | 340 | US-09-878-281A-114 | Sequence 114, App |
| 30 | 153 | 45.0 | 340 | US-09-878-281A-205 | Sequence 205, App |
| 31 | 153 | 45.0 | 1710 | US-09-208-140-3 | Sequence 3, Appl |
| 32 | 153 | 45.0 | 9599 | US-09-014-416-2 | Sequence 2, Appl |
| 33 | 153 | 45.0 | 9599 | US-09-014-416-6 | Sequence 6, Appl |
| 34 | 153 | 45.0 | 9646 | US-08-811-566-1 | Sequence 1, Appl |
| 35 | 153 | 45.0 | 9646 | US-09-034-756-1 | Sequence 1, Appl |
| 36 | 153 | 45.0 | 10803 | US-10-259-275-17 | Sequence 17, Appl |
| 37 | 153 | 45.0 | 12980 | US-08-811-566-5 | Sequence 5, Appl |
| 38 | 153 | 45.0 | 12980 | US-09-034-756-5 | Sequence 5, Appl |
| 39 | 152.6 | 44.9 | 340 | US-08-836-075A-95 | Sequence 95, Appl |
| 40 | 152 | 44.7 | 1773 | US-09-194-949A-14 | Sequence 14, Appl |
| 41 | 152 | 44.7 | 6189 | US-10-259-275-41 | Sequence 41, Appl |
| 42 | 152 | 44.7 | 7989 | US-09-539-601-10 | Sequence 10, Appl |
| 43 | 152 | 44.7 | 7992 | US-10-005-469-1 | Sequence 1, Appl |
| 44 | 152 | 44.7 | 7992 | US-10-005-469-2 | Sequence 2, Appl |
| 45 | 152 | 44.7 | 7992 | US-10-005-469-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-89
Sequence 89, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS-004
INFORMATION FOR SEQ ID NO: 89:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-89

Query Match 99.4%; Score 338; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1e-102;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTCAACACTGCAGAGCGCGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
DB 1 CTCACAGCTCAGAGCGCGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
QY 61 GGAGCCCGCAGACGAGAGCCATCATGCTTCTGACCGATTTGATCTGCTGCTCC 120
DB 61 GGAGCCCGCAGACGAGAGCCATCATGCTTCTGACCGATTTGATCTGCTGCTCC 120
QY 121 CATGNTAACTCTAAAGGTGAGGATGTGATACCGTAGTGACAGGCGCATGCTCTT 180
DB 121 CATGNTAACTCTAAAGGTGAGGATGTGATACCGTAGTGACAGGCGCATGCTCTT 180
QY 181 GACCAACATCTGCGCAATCTCTGATCTGCTTGAAGCTCAGGGCGCATGCGAGC 240
DB 181 GACCAACATCTGCGCAATCTCTGATCTGCTTGAAGCTCAGGGCGCATGCGAGC 240
QY 241 TGCCGGGCTGAAGAGCTTTGACATGTGTGCTGCGAGAGCAGACTTGTATTTCGGA 300
DB 241 TGCCGGGCTGAAGAGCTTTGACATGTGTGCTGCGAGAGCAGACTTGTATTTCGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACATAGTGCACCTGCGAGCT 340
DB 301 GAGTTGGGGGTCTCGAGAGACATAGTGCACCTGCGAGCT 340
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RESULT 2

US-08-836-075A-93
Sequence 93, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-93

Query Match 64.0%; Score 217.6; DB 3; Length 340;
Best Local Similarity 77.5%; Pred. No. 1.5e-62;
Matches 262; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

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QY 1 CTCAACAGTGCAGAGCGCGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
DB 1 CTCCTCGCTCAGAGCGCGATGTCAGACGAGCATGATCTACGATGCTGAATT 60
QY 61 GGAGCCCGCAGACGAGAGCCATCATGCTTCTGACCGATTTGATCTGCTGCTCC 120
DB 61 AGATCCGGTAGACGGAAGCCATTTACATCTTACTGAGGCGCTGATGCGGCGCC 120
QY 121 CATGNTAACTCTAAAGGTGAGGATGTGATACCGTAGTGACAGGCGCATGCTCTT 180
DB 121 CATGNTAACTCTAAAGGTGAGGATGTGATACCGTAGTGACAGGCGCATGCTCTT 180
QY 181 GACCAACATCTGCGCAATCTCTGATCTGCTTGAAGCTCAGGGCGCATGCGAGC 240
DB 181 GACCAACATCTGCGCAATCTCTGATCTGCTTGAAGCTCAGGGCGCATGCGAGC 240
QY 241 TGCCGGGCTGAAGAGCTTTGACATGTGTGCTGCGAGAGCAGACTTGTATTTCGGA 300
DB 241 AGCRAAGCTCAAAAACCTTGACATGTGTGCTGCGAGAGCAGACTTGTATTTCGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACATAGTGCACCTGCGAG 338
DB 301 GAGCGAGAGAGTCCCTGAGATGCGGGGCCCTGCGAG 338
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RESULT 3

US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

APPLICATION NUMBER: FCI/EP95/04153
 FILING DATE: 23 Oct 1995

DATE: 10/10/2010 TIME: 10:10:10

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-61

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```

Query Match      48.8%; Score 165.8; DB 3; Length 340;
Best Local Similarity 67.8%; Pred. No. 2.8e-45;
Matches 230; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

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QY      1 CTCACAGTCACGACGCGCATGTCCAGACGAGCATGACATCTACAGTGTGAAGTT 60
DB      1 CTCACAGTCACGACGCGCATGTCCAGACGAGCATGACATCTACAGTGTGAAGTT 60
QY      61 GGAGCCCGGAGCAGCAGGACGCCATCATGCTTACTGACCGATTGTACTTCGGGTCT 120
DB      61 GGAGCCCGGAGCAGCAGTGTGACCATCAAGTCTTTGACTGAAGGCTGTACGTGGGGGGCC 120
QY      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGGCCAGTGGCTCTT 180
DB      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGGCCAGTGGCTCTT 180
QY      121 CTTGACCAATTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCGCGGCGCTCTT 180
DB      121 CTTGACCAATTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCGCGGCGCTCTT 180
QY      181 GACCAACATCTCGGCAATTACTCTGACTTGCTTAAGTCAAGCGGCGATGACAGC 240
DB      181 GACCAACATCTCGGCAATTACTCTGACTTGCTTAAGTCAAGCGGCGATGACAGC 240
QY      241 TGCAGGCTGAGAGCCTTTGACATGTTGTTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
DB      241 TGCAGGCTGAGAGCCTTTGACATGTTGTTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
QY      301 GAGTTGGGGGTCTCGAGAGACACTAGTGACCTGGAGC 339
DB      301 GAGTTGGGGGTCTCGAGAGACACTAGTGACCTGGAGC 339

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RESULT 6
US-08-836-075A-55
Sequence 55, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA

```

```

ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

```

```

Query Match      48.2%; Score 164; DB 3; Length 340;
Best Local Similarity 67.2%; Pred. No. 1.1e-44;
Matches 227; Conservative 2; Mismatches 109; Indels 0; Gaps 0;

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QY      1 CTCACAGTCACGACGCGCATGTCCAGACGAGCATGACATCTACAGTGTGAAGTT 60
DB      1 CTCACAGTCACGACGCGCATGTCCAGACGAGCATGACATCTACAGTGTGAAGTT 60
QY      61 GGAGCCCGGAGCAGCAGGACGCCATCATGCTTACTGACCGATTGTACTTCGGGTCTC 120
DB      61 GGAGCCCGGAGCAGCAGTGTGACCATCAAGTCTTTGACTGAAGGCTGTACGTGGGGGGCC 120
QY      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGGCCAGTGGCTCTT 180
DB      121 CATGTTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTGAGGGCCAGTGGCTCTT 180
QY      121 CTTGACCAATTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCGCGGCGCTCTT 180
DB      121 CTTGACCAATTCAAAAGGGGAGAACTGCGGCTATTCGCAATGCGCGGCGCTCTT 180
QY      181 GACCAACATCTCGGCAATTACTCTGACTTGCTTAAGTCAAGCGGCGATGACAGC 240
DB      181 GACCAACATCTCGGCAATTACTCTGACTTGCTTAAGTCAAGCGGCGATGACAGC 240
QY      241 TGCAGGCTGAGAGCCTTTGACATGTTGTTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
DB      241 TGCAGGCTGAGAGCCTTTGACATGTTGTTCTGCGGAGACGACCTTGTCTTATTTTCGA 300
QY      301 GAGTTGGGGGTCTCGAGAGACACTAGTGACCTGGAG 338
DB      301 GAGTTGGGGGTCTCGAGAGACACTAGTGACCTGGAG 338

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RESULT 7
US-08-836-075A-53
Sequence 53, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207

```

```

CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-53

```

```

Query Match      48.0%; Score 163.2; DB 3; Length 340;
Best Local Similarity 67.1%; Pred. No. 2.1e-44;
Matches 228; Conservative 1; Mismatches 111; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGCAGATGACATCTACCGATGCTGAAGTT 60
DB 1 CTCGACAGTTCAGAGATGATGATCGTCTCGAGGATTAATATACCAATGTTGACTT 60
QY 61 GGAGCCCGCAGACGAGCAGCATGATGCTTACTGACCGATTGTACTNCGGTGTC 120
DB 61 GGCCCCGAGGCTCGAAGGCATTAAGTCGCTACCGCAGCGGCTGTACATGCGGGGCC 120
QY 121 CATGNTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTACAGGGCCAGTGGCTT 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTCTGCTCCGCGCAGCGGCTG 180
QY 181 GACCAACATCTGGCCAAATCTGACTGTACTTGAAGCTCAGGGGCAATGCAAGC 240
DB 181 GACTACCACTGCGGCAACACCTGACATGCTAATTGAAGCAAGCGGCTGTGAGC 240
QY 241 TGCCGGGCTGAAGGACTTTGACATGTGTCTGCGAGAGCAGACTTGTGTTATTTCCGA 300
DB 241 TGCAAGGCTCGGAGCTGACCATGCTGTGTGCGGGAGTAGCTTGTGTTATCTGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACATAGTCACTGCGAGCT 340
DB 301 GAGTGGGGAGTCGAGAGAGCGCGCAACTTACGAGCT 340

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RESULT 8
US-08-441-971-3
Sequence 3, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:

```

```

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5p1
US-08-441-971-3

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Query Match      47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1.1e-43;
Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1 CTCACAGTCACAGAGCGCGATGTCACAGCAGATGACATCTACCGATTGTACTNCGGTGTC 60
DB 1 CTCGACAGTTCAGAGATGATGATCGTCTCGAGGATTAATATACCAATGTTGACTT 60
QY 61 GGAGCCCGCAGACGAGCAGCATGATGCTTACTGACCGATTGTACTNCGGTGTC 120
DB 61 GGCCCCGAGGCTCGAAGGCATTAAGTCGCTACCGCAGCGGCTGTACATGCGGGGCC 120
QY 121 CATGNTAACTCTAAAGGTGAGCATGTGATACCGTAGTGTACAGGGCCAGTGGCTT 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGGCTACCGTCTGCTCCGCGCAGCGGCTG 180
QY 181 GACCAACATCTGGCCAAATCTGACTGTACTTGAAGCTCAGGGGCAATGCAAGC 240
DB 181 GACTACCACTGCGGCAACACCTGACATGCTAATTGAAGCAAGCGGCTGTGAGC 240
QY 241 TGCCGGGCTGAAGGACTTTGACATGTGTCTGCGAGAGCAGACTTGTGTTATTTCCGA 300
DB 241 CGCAGGCTCGGAGCTGACCAATGCTGTGTGCGGGAGTAGCTTGTGTTATCTGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACATAGTCACTGCGAGC 339
DB 301 GAGTGGGGGTCTCGAGAGAGCGCGCAACTTACGAGC 339

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RESULT 9

US-08-441-971-6
; Sequence 6, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5p2
; US-08-441-971-6

Query Match 47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1.1e-43;

Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1 CTCGAAGTCACAGAGCGGATGTCAGACGAGCATGTACCATGCTGTAAATT 60
|||
DB 1 CTCCTACAGTCACAGAGCGGATGTCAGACGAGCATGTACCATGCTGTAAATT 60
|||
QY 61 GGAGCCCGGAGCAGCAGCGCATCATCGCTTACGACCGTGTACTGCGGTGCTC 120
|||
DB 61 GGAGCCCGGAGCAGCAGCGCATCATCGCTTACGACCGTGTACTGCGGTGCTC 120
|||
QY 121 CATGTTAACTCTAAAGTCAGCATGTGATACCGTAGTGAGGGCCAGTGGCTCTT 180
|||
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCGGCAAGCGGCTTACT 180
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QY 181 GACCAACATCTCGGCAATATCTTGACTGTCTAATTGAAGCTCAGGCGGATGCAAGC 240
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DB 181 GACGACTAGCTGTGTAAATACCTCACTTGTTCATCAAGGCGCGGCGAGCGCTGTGAGC 240
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QY 241 TGCCGGCTGAAGACATTTGACATGTTGTCGCGAGACGACCTTGCTTATTTCCGA 300
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DB 241 CGCAGGGCTCCAGACACTGCACATGCTGTGTGTGGAGCAGCACTTAGTGTATCTGGA 300
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QY 301 GAGTTGGGGGTCTTCGAGGACACTAGTGCATGCGAGC 339
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DB 301 AAGTCGGGGGTCCAGAGGAGCAGCGGCGAGCTTAGAGC 339
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RESULT 10

US-08-221-653-3
; Sequence 3, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5pct1
; US-08-221-653-3

Query Match 47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1.1e-43;

Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1 CTCGAAGTCACAGAGCGGATGTCAGACGAGCATCATCGCTTACGACCGTGTGCTC 60
|||
DB 1 CTCGAAGTCACAGAGCGGATGTCAGACGAGCATCATCGCTTACGACCGTGTGCTC 60
|||
QY 61 GGAGCCCGGAGCAGCAGCGCATCATCGCTTACGACCGTGTGCTC 120
|||
DB 61 GGAGCCCGGAGCAGCAGCGCATCATCGCTTACGACCGTGTGCTC 120
|||
QY 121 CATGTTAACTCTAAAGTCAGCATGTGATACCGTAGTGAGGGCCAGTGGCTCTT 180
|||
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCGGCGAGCGGCTTACT 180
|||

| | | | | |
|-----------------------|--------------|-------------------|----------------|------------|
| Query Match | 47.4% | Score 161 | DB 3 | Length 340 |
| Best Local Similarity | 67.0% | Pred. No. 1,1e-43 | | |
| Matches 227 | Conservative | 0 | Mismatches 112 | Indels 0 |
| | | | | Gaps 0 |

QY 1 CTCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCAAGTGTGAAGTT 60
DB 1 CTCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCAAGTGTGAAGTT 60
QY 61 GGAGCCCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 120
DB 61 GGAGCCCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 120
QY 121 CATGTTAACTCTAAAGGTCAAGCATGTGATACCGTAGGTGAGGCGCAAGTGGCTCTT 180
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCGGCGAGGCGGCTACT 180
QY 181 GACCAACCATCTGCGCAATCTGCACTTGTAAAGCTCAAGGCGGCAATGACAGAGC 240
DB 181 GACCACTAGCTGTGTAATACCTCACTTGTCAATCAAGGCGGCGGCACTGTGAGC 240
QY 241 TCCCGGCTGAAGAGACTTTGACATGTGTGCGGAGAGCAGCCTTGTCTATTTCGGA 300
DB 241 CCGAGGGCTCCGGGACTGCACCATGCTCGTGTGTGAGAGACTTGTCTATTTCGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACCTAGTGCCTGCGAGC 339
DB 301 GAGTGGGGGTCTCGAGAGAGCAGCGGCGAGCCTGAGAGC 339

RESULT 13
US-08-442-144A-6
; Sequence 6, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yalko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA

ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5sep2
US-08-442-144A-6
Query Match 47.4%; Score 161; DB 3; Length 340;
Best Local Similarity 67.0%; Pred. No. 1,1e-43;
Matches 227; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1 CTCACACTCAGACAGCGGAGTGTCCAGACGAGCATGACATCTACCAAGTGTGAAGTT 60
DB 1 CTCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCAAGTGTGAAGTT 60
QY 61 GGAGCCCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 120
DB 61 GGAGCCCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 120
QY 121 CATGTTAACTCTAAAGGTCAAGCATGTGATACCGTAGGTGAGGCGCAAGTGGCTCTT 180
DB 121 TCTTACCAATTCAAGGGGGAGAACTGCGGCTACCGCAGGTGCGGCGAGGCGGCTACT 180
QY 181 GACCAACCATCTGCGCAATCTGCACTTGTAAAGCTCAAGGCGGCAATGACAGAGC 240
DB 181 GACCACTAGCTGTGTAATACCTCACTTGTCAATCAAGGCGGCGGCACTGTGAGC 240
QY 241 TCCCGGCTGAAGAGACTTTGACATGTGTGCGGAGAGCAGCCTTGTCTATTTCGGA 300
DB 241 CCGAGGGCTCCGGGACTGCACCATGCTCGTGTGTGAGAGACTTGTCTATTTCGGA 300
QY 301 GAGTTGGGGGTCTCGAGAGACCTAGTGCCTGCGAGC 339
DB 301 AAGTGGGGGTCTCGAGAGAGCAGCGGCGAGCCTGAGAGC 339

RESULT 14
US-08-441-970-3
; Sequence 3, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; ? INDIVIDUAL ISOLATE: ns5pc1
US-08-441-970-3

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|-----------------------|-----------------|--------------------|-----------|-------------|
| Query Match | 47.4%; | Score 161; | DB 3; | Length 340; |
| Best Local Similarity | 67.0%; | Pred. No. 1.1e-43; | | |
| Matches 227; | Conservative 0; | Mismatches 112; | Indels 0; | Gaps 0; |

| | | |
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| QY | CTCAACAGTACAGAGGCGCATGTCCAGACGAGATGCATCTACAGTCTGAAGTT | 60 |
| Db | 1 CTCACAGTCACTGAGGCGACATCCGTACGGGAGGCAATCTTCCAAATGTTGATCT | 60 |
| QY | 61 GGAGCCCGGAGCAGGACAGACCATCAACCGCTTACTACCGATGTACTACGGTGTCC | 120 |
| Db | 61 GGAGCCCGGAGGCGCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTACGTTGGGGGCC | 120 |
| QY | 121 CATGTMTACTCTTAAAGTTCAGGCATGTGGATACCGTAGTGGCAGGCGCAGTGGCGTCTT | 180 |
| Db | 121 TCTTACCAATTCAAGGGGGGAGAACTGCGGTATCCGCAAGGTGCGGGCGAGCGGGTAACT | 180 |
| QY | 181 GACCACCATCTTGGCCAAATCTTGACTTGTCTAATTGAAAGTCAAGGGCGCATGCAGAGC | 240 |
| Db | 181 GACAACATGCTGTGTAAATACCTTCACTTGTACATCAAGGCGCCGGGCAAGCTTGACAGC | 240 |
| QY | 241 TGC CGGGCTGAAGGACTTTGACATGTGTGGTCTGCGGAGACGACCTTGTCTTATTTTGGGA | 300 |
| Db | 241 CGCAGGGCTCGGGAGCTGCACCATGTCTCGTGTGTGTGACGACTTGTGTCTTATCTGGA | 300 |
| QY | 301 GAGTTTGGGGGTCTCGAGAGCACTAATGTCACTGGAGAC | 339 |
| Db | 301 GAGTGGGGGGTCCAGAGAGACCGCGGCGAGCTTGAGAGC | 339 |

US-RESULT 15
US-08/441-970-6
Sequence 6, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:

```

? TELEPHONE: (617) 720-3500
?
? TELFAX: (617) 720-2441
?
?
?
?
? TELETYPE: EZEITE
?
? INFORMATION FOR SEQ ID NO: 6:
?
? SEQUENCE CHARACTERISTICS:
?
? LENGTH: 340 nucleotides
?
? TYPE: nucleic acid
?
? STRANDEDNESS: single
?
? TOPOLOGY: linear
?
? MOLECULE TYPE: DNA
?
? ORIGINAL SOURCE:
?
? INDIVIDUAL ISOLATE: ms5sp
?
US-08-441,970-6

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|-----------------------|-----------------|--------------------|-----------|-------------|
| Query Match | 47.4%; | Score 161; | DB 3; | Length 340; |
| Best Local Similarity | 67.0%; | Pred. No. 1.1e-43; | | |
| Matches 227; | Conservative 0; | Mismatches 112; | Indels 0; | Gaps 0; |

| | | | |
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| Qy | 1 | CTCACAAGCTCACAGACGGCGATGTCACAAACGAGCATGACATCTACACAGTGCCTGAAGTT | 60 |
| Db | 1 | CTTACAGTCACCTGAGAGCGAATCCGTAACGAGAGGCAATCTACCAATGTTGTGACCT | 60 |
| Qy | 61 | GGAGCCCGCAGACCGACAGCCATACACTGCCTTACTGACCGAATGTATCTNCGTGGTCC | 120 |
| Db | 61 | GGACCCCGAAGCCCGTGTGGCCATTAAGTCTCTCACTGAGAGGCTTTATGTTGGGGGCC | 120 |
| Qy | 121 | CATGTTAACTCTTAAAGTCAGGCGCATGTGZATPACCGTAGTGACAGGCGCAGTGGCTCTT | 180 |
| Db | 121 | TCTTACCAATTCMAAGGGGGGAGAACTGGGGCTACCGCAGGTGCGGCCMAAGCGGCTACT | 180 |
| Qy | 181 | GACCACCATCTGGGCCATTACTCTGACCTTGGTACTTGAAGGTAGGGCGGCATGCAAGC | 240 |
| Db | 181 | GACGACTTACCTGTGGTAATACCTCTACTCTGTATTACTAACAAGCCCGGGCAGCTGTGAGC | 240 |
| Qy | 241 | TGCCGGGCTGAAGACTTTGACATGTTGGTCTGCGAGAACGACCTTGTGTTATTTTGGGA | 300 |
| Db | 241 | CGCAGGGCTCCAGACTGCACCATGCTGCTGTGTGTGACGACACTTAAGTCTGTTATCTCGA | 300 |
| Qy | 301 | GAGTTTGGGGGTCTGGAGAGACATGATGCACTGCGAGC | 339 |
| Db | 301 | AAGTGCAGGGGATCCAGAGAGACGCGCGAGCCTTAAGAC | 339 |

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Job time : 101.519 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-91

Perfect score: 340
Sequence: 1 ctgcagcagctcaccgagcgcg.....atgttcagccctcgagca 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapept 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
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- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
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| 1 | 339.2 | 99.8 | 340 | US-08-836-075A-91 | Sequence 91, Appl |
| 2 | 250.8 | 73.8 | 340 | US-08-836-075A-93 | Sequence 89, Appl |
| 3 | 208.2 | 61.2 | 340 | US-08-836-075A-89 | Sequence 57, Appl |
| 4 | 178.8 | 52.6 | 340 | US-08-836-075A-57 | Sequence 55, Appl |
| 5 | 177.2 | 52.1 | 340 | US-08-836-075A-55 | Sequence 95, Appl |
| 6 | 176.6 | 51.9 | 340 | US-08-836-075A-95 | Sequence 53, Appl |
| 7 | 175 | 51.5 | 340 | US-08-836-075A-53 | Sequence 61, Appl |
| 8 | 167.4 | 49.2 | 340 | US-08-836-075A-61 | Sequence 2, Appl |
| 9 | 162.6 | 47.8 | 340 | US-08-441-971-2 | Sequence 2, Appl |
| 10 | 162.6 | 47.8 | 340 | US-08-441-971-3 | Sequence 2, Appl |
| 11 | 162.6 | 47.8 | 340 | US-08-221-653-2 | Sequence 2, Appl |
| 12 | 162.6 | 47.8 | 340 | US-08-221-653-3 | Sequence 2, Appl |
| 13 | 162.6 | 47.8 | 340 | US-08-442-144A-2 | Sequence 2, Appl |
| 14 | 162.6 | 47.8 | 340 | US-08-442-144A-3 | Sequence 2, Appl |
| 15 | 162.6 | 47.8 | 340 | US-08-441-970-2 | Sequence 2, Appl |
| 16 | 162.6 | 47.8 | 340 | US-08-441-970-3 | Sequence 3, Appl |
| 17 | 162.6 | 47.8 | 9413 | US-09-827-688-6 | Sequence 6, Appl |
| 18 | 162.6 | 47.8 | 9595 | US-09-014-416-4 | Sequence 4, Appl |
| 19 | 161 | 47.4 | 340 | US-08-441-971-4 | Sequence 6, Appl |
| 20 | 161 | 47.4 | 340 | US-08-441-971-6 | Sequence 16, Appl |
| 21 | 161 | 47.4 | 340 | US-08-221-653-4 | Sequence 4, Appl |
| 22 | 161 | 47.4 | 340 | US-08-221-653-6 | Sequence 6, Appl |
| 23 | 161 | 47.4 | 340 | US-08-221-653-16 | Sequence 16, Appl |
| 24 | 161 | 47.4 | 340 | US-08-221-653-16 | Sequence 16, Appl |

| | | | | | |
|----|-------|------|-------|-------------------|-------------------|
| 25 | 161 | 47.4 | 340 | US-08-442-144A-4 | Sequence 4, Appl |
| 26 | 161 | 47.4 | 340 | US-08-442-144A-6 | Sequence 6, Appl |
| 27 | 161 | 47.4 | 340 | US-08-442-144A-16 | Sequence 16, Appl |
| 28 | 161 | 47.4 | 340 | US-08-441-970-4 | Sequence 4, Appl |
| 29 | 161 | 47.4 | 340 | US-08-441-970-6 | Sequence 6, Appl |
| 30 | 161 | 47.4 | 340 | US-08-441-970-16 | Sequence 16, Appl |
| 31 | 161 | 47.4 | 1710 | US-09-208-140-3 | Sequence 3, Appl |
| 32 | 161 | 47.4 | 9599 | US-09-014-416-2 | Sequence 3, Appl |
| 33 | 161 | 47.4 | 9599 | US-09-014-416-6 | Sequence 6, Appl |
| 34 | 161 | 47.4 | 9646 | US-08-811-566-1 | Sequence 1, Appl |
| 35 | 161 | 47.4 | 9646 | US-09-034-756-1 | Sequence 1, Appl |
| 36 | 161 | 47.4 | 10803 | US-10-259-275-17 | Sequence 17, Appl |
| 37 | 161 | 47.4 | 12980 | US-08-811-566-5 | Sequence 5, Appl |
| 38 | 161 | 47.4 | 12980 | US-09-034-756-5 | Sequence 5, Appl |
| 39 | 160 | 47.1 | 1773 | US-09-720-095A-1 | Sequence 1, Appl |
| 40 | 159.4 | 46.9 | 340 | US-08-441-971-5 | Sequence 5, Appl |
| 41 | 159.4 | 46.9 | 340 | US-08-221-653-5 | Sequence 5, Appl |
| 42 | 159.4 | 46.9 | 340 | US-08-442-144A-5 | Sequence 5, Appl |
| 43 | 159.4 | 46.9 | 340 | US-08-441-970-5 | Sequence 5, Appl |
| 44 | 159.4 | 46.9 | 9365 | US-09-827-688-7 | Sequence 7, Appl |
| 45 | 158.6 | 46.6 | 340 | US-08-836-075A-63 | Sequence 63, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: A6207
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

```
/ ANTI-SENSE: NO
US-08-836-075A-91
Query Match          99.8%; Score 339.2; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 2.1e-99;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACGAGCGCGGACATCCRCACCGAGACGACATCTACCAATGCTGCAACT 60
DB 1 CTCGACAGTCACGAGCGCGGACATCCRCACCGAGACGACATCTACCAATGCTGCAACT 60
QY 61 TGACCCGGTGACGACGCAAGGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCGC 120
DB 61 TGACCCGGTGACGACGCAAGGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCGC 120
QY 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGAGCCAGCGGCTGTCT 180
DB 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGAGCCAGCGGCTGTCT 180
QY 181 CACGACGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTAGAGGC 240
DB 181 CACGACGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTAGAGGC 240
QY 241 AGCAAAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTGTATCGCGGA 300
DB 241 AGCAAAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTGTATCGCGGA 300
QY 301 GAGTGAGAGAGTCTCTGAGAGATGTTGACCGCCCTGCGAGCA 340
DB 301 GAGTGAGAGAGTCTCTGAGAGATGTTGACCGCCCTGCGAGCA 340

RESULT 2
US-08-836-075A-93
; Sequence 93, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:
```

```
/ LENGTH: 340 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHEICAL: NO
/ ANTI-SENSE: NO
US-08-836-075A-93
Query Match          73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 6.6e-71;
Matches 282; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACGAGCGCGGACATCCRCACCGAGACGACATCTACCAATGCTGCAACT 60
DB 1 CTCGACAGTCACGAGCGCGGACATCCRCACCGAGACGACATCTACCAATGCTGCAACT 60
QY 61 TGACCCGGTGACGACGCAAGGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCGC 120
DB 61 TGACCCGGTGACGACGCAAGGCTATTACATCTGTGACTGAGCGGCTGTACTGCGGAGGCGC 120
QY 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGAGCCAGCGGCTGTCT 180
DB 121 CATGATGAATCCCGTGCTCATCTGTGTGATACCGTAGTCCGAGCCAGCGGCTGTCT 180
QY 181 CACGACGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTAGAGGC 240
DB 181 CACGACGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTAGAGGC 240
QY 241 AGCAAAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTGTATCGCGGA 300
DB 241 AGCAAAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTGTATCGCGGA 300
QY 301 GAGTGAGAGAGTCTCTGAGAGATGTTGACCGCCCTGCGAG 338
DB 301 GAGTGAGAGAGTCTCTGAGAGATGTTGACCGCCCTGCGAG 338

RESULT 3
US-08-836-075A-89
; Sequence 89, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P. O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
```

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

US-08-836-075A-89

Query Match 61.2%; Score 208.2; DB 3; Length 340;
 Best Local Similarity 75.2%; Pred. No. 3.5e-57;
 Matches 255; Conservative 2; Mismatches 82; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACCGAGCGGACATCCRCACCGAGCAGCATCTACCAATGCTGCCACT 60
DB 1 CTCACAGTCACAGAGCGGATGTCAGACGAGCATGACATCTACCAATGCTGTAAGT 60
QY 61 TGACCCGGTGGCAGCGAAGGCTATTACATCTCTGACTGAGCGGCTGTACTGCGGAGGC 120
DB 61 GGAGCCCGCAGACGAGCAGCATCATCTGCTTACTGACCGATTGTATCTGCGTGTCTC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCGTAGTGCAGGCGGAGGCGTGT 180
DB 121 CATGATGAATCCCGTGTCAATCATGTGATACCGTAGTGCAGGCGGAGGCGTGT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGAGC 240
DB 181 GACCAACATCTCGGCAATACCTTAACATGCTATTGAAAGCTCAGGCGGAGGCGTGTAGGAGC 240
QY 241 AGCAAGCTCAAAAATATGATGATTTAGTCTGCGGAGCGATCTAGTGTATCGCGGA 300
DB 241 TGCCGGGCTGGAAGACTTTGATCATGTTGCTGCGGAGCGACCTTGTGTTATTTCCGA 300
QY 301 GAGTGGAGAGATCTCTGAGAGATGTTGACCCCTCGGAGC 339
DB 301 GAGTTGGGGTCTCGAGAGACATGTCACCTGCGAGC 339

```

RESULT 4

US-08-836-075A-57
 Sequence 57, Application US/08836075A
 Patent No. 6180768

GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF INVENTION: AGENTS
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 57:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO

US-08-836-075A-57

Query Match 52.6%; Score 178.8; DB 3; Length 340;
 Best Local Similarity 70.1%; Pred. No. 1.1e-47;
 Matches 237; Conservative 2; Mismatches 99; Indels 0; Gaps 0;

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QY 1 CTCGACAGTCACCGAGCGGACATCCRCACCGAGCAGCATCTACCAATGCTGCCACT 60
DB 1 CTCGACAGTCATGAAAGACATTCGTGTGAGGAAATCAATCTACCAATGCTGTGACTT 60
QY 61 TGACCCGGTGGCAGCGAAGGCTATTACATCTCTGACTGAGCGGCTGTACTGCGGAGGC 120
DB 61 GGCCCGCAGGCGCGCAAGGCGATTAAGTCGCTACCGAGGCGCTGTATATCGGGGCTTC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCGTAGTGCAGGCGGAGGCGTGT 180
DB 121 CTTAACCAACTCAAAAAGGAGCAAGACTGCGGCTACCGTGTGCGGCGGAGGCGGCTGT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGTGTAGGAGC 240
DB 181 GACTACAGCTCGGCAATACCTTAACATGCTATTGAAAGCGAGGCGGCTGTGAGC 240
QY 241 AGCAAGCTCAAAAATATGATGATTTAGTCTGCGGAGCGATCTAGTGTATCGCGGA 300
DB 241 TGCGAAGCTCCAGAGCTGCAACAATGCTGTGTGCGGAGCAGCATCTGTGTTATCTGGA 300
QY 301 GAGTGGAGAGATCTCTGAGAGATGTTGACCCCTCGGAG 338
DB 301 GAGTGCRRGAGTCTGAGAGAGATGCGGCGAAGCTTACGAG 338

```

RESULT 5

US-08-836-075A-55
 Sequence 55, Application US/08836075A
 Patent No. 6180768

GENERAL INFORMATION:
 APPLICANT: MAERTENS, GEERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF INVENTION: AGENTS
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output

```

;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
;
US-08-836-075A-55
```

```

Query Match          52.1%; Score 177.2; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 3.5e-47;
Matches 236; Conservative 2; Mismatches 100; Indels 0; Gaps 0;
```

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QY      1 CTGCAGAGTACCGAGCGGAGCATCCRACCGAGCAAGCATCTACCAATGCTGCCAACT 60
DB      1 CTGCAGAGTACTGAGAGACACATCCGTACCGAGATCAATTAATGTTGTGACTT 60
QY      61 TGACCCGCTGGCAAGGAGCTATTAATCTCTGACTGAGCGGCTGACTGCGGAGGCC 120
DB      61 GGGCCCTGAGGCGCGAGGCGCATTAAGTGTCTACCGAGCGGCTGAGTGTGCGGAGGCC 120
QY      121 CATGATGAATCCCGTGTGATATCATGTGATACCGTAGTGGCGGAGCGGCTGTCT 180
DB      121 CCAACCAATTCAGAGGCGGAGCAATCGCGCTATCTGTGTGCGGCTAGCGGCGTGTCT 180
QY      181 CACCAAGAGCTGGGCAATACCTTAACATGCTATTGAAAGCAAGAGCGGTGTAGGGC 240
DB      181 GACCAAGAGCTGGGCAAGCGGAGCGGCTTACATCTTGAAGCGAGGCGGCGCTGTGAGC 240
QY      241 AGCAAGCTCAAAACTATGATGATGTTAGTCTGCGGAGAGATCTAGTCTTATCGCGA 300
DB      241 TGCAAGCTTCAAGAGCTGACGAGATGCTCGTGTGCGGAGAGAGACTTGTGTATCTGTGA 300
QY      301 GAGTGAAGAGTCTCTGAGGATGTTGACGCGCTGCGAG 338
DB      301 GAGCGGCGGAGTCAAGAGAGAGCGGCGAAGCTTACGAG 338
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RESULT 6

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US-08-836-075A-95
; Sequence 95, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
```

```

;
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
;
US-08-836-075A-95
```

```

Query Match          51.9%; Score 176.6; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 5.4e-47;
Matches 236; Conservative 1; Mismatches 101; Indels 0; Gaps 0;
```

```

QY      2 TGACAGTACCGAGCGGAGCATCCRACCGAGCAAGCATCTACCAATGCTGCCAACT 61
DB      2 TCACAGTACCGGCGGAGCATACGACAGAAAGCAATTTACTGTCTGCGGAGGCTC 61
QY      62 GACCCGCTGGCAAGGAGCTATTAATCTCTGACTGAGCGGCTGACTGCGGAGGCC 121
DB      62 GACCCAGAGGCGCGAAGGAGCAATTAAGTGTCTCACTGAGAGGCTCTATGTGCGGAGGCTC 121
QY      122 ATGATGAATCCCGTGTGATATCATGTGATACCGTAGTGGCGGAGCGGCTGTCT 181
DB      122 ATGTACAACTCAAGGCGGAGCAATCTGTGTGATGAGCGGCGGAGCGGAGTACTC 181
QY      182 ACCAGAGCTGGGCAATACCTTAACATGCTATTGAAAGCAAGAGCGGTGTAGGGCA 241
DB      182 CCACAGAGATGGGTAACCATCATCATCTTCTGAAAGGCAAGCGGCGCTTCCGAGGA 241
QY      242 GCAAAAGCTCAAAACTATGATGATGTTAGTCTGCGGAGAGATCTAGTCTTATCGCGAG 301
DB      242 GCGGCTTACAGATTATGATGATGTTAGTCTGCGGAGAGATGTTGTGTGTAATCTGAG 301
QY      302 AGTGAAGAGTCTCTGAGGATGTTGACGCGCTGCGAGC 339
DB      302 AGTGTGAGTCAAGAGAGATATCGTAACTGTGAGC 339
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RESULT 7

```

US-08-836-075A-53
; Sequence 53, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: ARNOLD, WHITE & DURKEE
;; STREET: P.O. BOX 4433
;; CITY: HOUSTON
;; STATE: TEXAS
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: Microsoft Word 6.0 / ASCII text output
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/836,075A
;; FILING DATE: 21 Apr 1997
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: PCT/EP95/04155
;; FILING DATE: 23 Oct 1995
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: EP 94870166.9
;; FILING DATE: 21 Oct 1994
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: EP 95870076.7
;; FILING DATE: 28 Jun 1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: KAMMERER, PATRICIA A.
;; REGISTRATION NUMBER: 29,775
;; REFERENCE/DOCKET NUMBER: INNS:004
;; INFORMATION FOR SEQ ID NO: 53:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 340 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;;
US-08-836-075A-53

Query Match 51.5%; Score 175; DB 3; Length 340;
Best Local Similarity 69.3%; Pred. No. 1.8e-46;
Matches 235; Conservative 2; Mismatches 102; Indels 0; Gaps 0;

QY 1 CTCGACAGTCCGACGCGGACATCCRCACCGACGACGACATCTCAATGCTGCAACT 60
DB 1 CTCGACAGTCTGAGATGACATCCGCTCGTCAAGGATCAATATCAATGTTGACTT 60
QY 61 TCACCCGCTGGGACGCGAAGCTATTACATCTCTGACTGACGCGGCTGTACTGCGGAGGCC 120
DB 61 GGGCCCGGAGGCTCGGAAGCCATAAGTCGCTACCCGAGCGGCTGTATCATCGGGGGCCC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCGTAGTGCAGGCGGCTGTCT 180
DB 121 YCTAACCAATTCAAAAGGACAGAACTGCGCTACCGTCCGTCGCCGACGCGGCTGTCT 180
QY 181 CACCAAGAGCTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
DB 181 GACTACACCTGCGGACACACCTTGACATGCTACTTGAAGCAAGAGCGGCTGTGAGGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTCTATCGCGGA 300
DB 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGGAGATGACCTTGTGTTATCTGTGA 300
QY 301 GAGTGGAGGAGTCTCTGAGAGATGTTGACGCCCTGCGAGC 339
DB 301 GAGTGGGAGATCGAGGAGAGACGCGGCAACTACGAGC 339

RESULT 8
US-08-836-075A-61
; Sequence 61, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:

;; APPLICANT: MAERTENS, GEERT
;; APPLICANT: STUYVER, LIEVEN
;; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
;; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
;; NUMBER OF SEQUENCES: 207
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: ARNOLD, WHITE & DURKEE
;; STREET: P.O. BOX 4433
;; CITY: HOUSTON
;; STATE: TEXAS
;; COUNTRY: USA
;; ZIP: 77210-4433
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: IBM PC compatible
;; SOFTWARE: Microsoft Word 6.0 / ASCII text output
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/836,075A
;; FILING DATE: 21 Apr 1997
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: PCT/EP95/04155
;; FILING DATE: 23 Oct 1995
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: EP 94870166.9
;; FILING DATE: 21 Oct 1994
;; PRIORITY APPLICATION DATA:
;; APPLICATION NUMBER: EP 95870076.7
;; FILING DATE: 28 Jun 1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: KAMMERER, PATRICIA A.
;; REGISTRATION NUMBER: 29,775
;; REFERENCE/DOCKET NUMBER: INNS:004
;; INFORMATION FOR SEQ ID NO: 61:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 340 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: cDNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;;
US-08-836-075A-61

Query Match 49.2%; Score 167.4; DB 3; Length 340;
Best Local Similarity 68.1%; Pred. No. 5e-44;
Matches 231; Conservative 1; Mismatches 107; Indels 0; Gaps 0;

QY 1 CTCGACAGTCCGACGCGGACATCCRCACCGACGACGACATCTCAATGCTGCAACT 60
DB 1 CTCGACAGTCTGAGATGACATCCGCTCGTCAAGGATCAATATCAATGTTGACTT 60
QY 61 TCACCCGCTGGGACGCGAAGCTATTACATCTCTGACTGACGCGGCTGTACTGCGGAGGCC 120
DB 61 GACCCCGGAGGCTGTGAGGATGACATCTTGTGACTGAAGGCTGTACGTCGGGGGCC 120
QY 121 CATGATGAATCCCGTGTCAATCATGTGATACCGTAGTGCAGGCGGCTGTCT 180
DB 121 CTTGACCAATTCAAAAGGAGGAACTGCGGCTATTCGACAGATGCGGTGCACGCGGTCTT 180
QY 181 CACCAAGAGCTGGGCAATACCTTAACATGCTATTGAAAGCAAGACGCGGTAGAGGC 240
DB 181 GACCAAGAGCTGGGCAACACCTTCACTGCTATATATCAAGGCGCTTAGAGCTGTAGAGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTTAGTCTGCGGAGACGATCTAGTCTATCGCGGA 300
DB 241 TGCAAGCTCCGGGAGCTGACATGCTGTGTGCGGGAGATGACCTTGTGTTATCTGTGA 300
QY 301 GAGTGGAGGAGTCTCTGAGAGATGTTGACGCCCTGCGAGC 339
DB 301 GAGTGTAGGAGACCGAGGAGATGCGGGAGCTTCGAGC 339

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RESULT 9
US-08-441-971-2
; Sequence 2, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
;
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5121
;
US-08-441-971-2
Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGACATCCRACCGGACGACATCTACCATGTCGCCACT 60
DB 1 CTCACAGTCATGAGAGCGACATCCGTACGAGAGGCAATTTCATTTGTGACCT 60
QY 61 TGACCCGGTGGACGACGAGGCTATTACATCTGTGACTGAGCGGCTGTACTGCGMGGGCC 120
DB 61 GGAACCCCAAGCCCGCATGCGCATCAAGTCTCTCATCTGAGAGGCTTTATGTCCGGGGCCC 120
QY 121 CATGATGAATCTCCGTTGTCATCATGTGATACCGTAGTGCCGAGCCAGTGGCGTGTCT 180
DB 121 TCTTACCAATTCAAGGGGGGAGAACTGCGGCTACCGGAGGTGCGCGCGAGCGGCTACT 180
QY 181 CACCAAGAGCTTGGGCAATACCTTAACATCTTATTGAAGCAACAGCAGCGTGTAGGC 240
DB 181 GACCAACTAGCTGTGGTAACACCTCTACTTGTCTACATCAAGGCCCGGGCAGCCTGTGAGC 240
QY 241 AGCAAGCTCAAAACTATGATGATGTTAGTCTGCGGAGACGATCTAGTCTTATCGCGGA 300
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DB 241 CGACAGGCTCCAGGACCTGCACCATGCTGTGTGTGGCAGCAGCATTAAGTCTTATCTGTGA 300
QY 301 GAGTGAGAGAGTCTCTGAGATGTTGAGCCCTCGCGAC 339
DB 301 AAGTCGGGGGTCCAGAGGAGCGGCGAGCCTGAGAC 339

RESULT 10
US-08-441-971-3
; Sequence 3, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
;
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5pct1
;
US-08-441-971-3
Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGAGATCCRACCGGACGACATCTTACCATGTCGCCACT 60
DB 1 CTCACAGTCATGAGAGCGACATCCGTACGAGAGGCAATCTTCAATGTTGTGACT 60
QY 61 TGACCCGGTGGACGACGAGGCTATTATTAATCTGTGACTGAGCGGCTGTACTGCGMGGGCC 120
DB 61 GGAACCCCAAGCCCGGTGGGCAATCAAGTCTCTCATCTGAGAGGCTTTATGTTGGGGCCC 120
QY 121 CATGATGAATCTCCGTTGTCATCATGTGATACCGTAGTGCCGAGCCAGTGGCGTGTCT 180
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| QY | CTGACAGTACCCGAGCGGACATCCRCACCGAGACACATCTACCAATCTCCAACT | 60 |
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| Db | 1 CTCCACAGTCACTGAGAGCGACATCCGTCGAGAGAGGCAATCTACCAATCTTGTGATCT | 60 |
| QY | 61 TGACCCGGTGGCAACGCAAGGCTATTACATCTCTGACTGAGCGGCTGTACCTCGCGMGGGCC | 120 |
| Db | 61 GGAACCCCAAGCCCCCGGTGGCCATCAAGTCCCTCACTAGAGAGCTTTTACGTTTGGGGGCC | 120 |
| QY | 121 CAGATGAACCTCCCGTGGTCAATCATGTGGATATACGTAAGTGCACGAGCCAGTGGCGTCT | 180 |
| Db | 121 TCTTACCAATTCAAGGGGGGAGAACTGGCGGTACACGCAAGTGTCCGGGGGAGACGGGGTAACT | 180 |
| QY | 181 CACCACGAGCTTGGGCAATACCTTAACATGCTAATTTTGAAGACAAAGACGCTGTAGGGC | 240 |
| Db | 181 GACAACTAAGCTGTGTATATACCTCACTTGCTACATCAAGAGCCCGGGAGCGCTGTCAAGC | 240 |
| QY | 241 AGCAAAAGCTCAAAAAGTATGACATGTAGTCTGCGGAGACGATCTAAGTCGTTATCGCGGA | 300 |
| Db | 241 CGAGAGGCTCGGGAGCTGACACATGTGCTGTGTGTGTGTGACGACTTGTGTTATCTGTGA | 300 |
| QY | 301 GAGTGAAGAGATCTCTGAGAGATTTTAAAGCCCTCTGCGAGC | 339 |
| Db | 301 GAGTGCAGGAGTCCAGAGGACCGCGGAGCCTTGAGAGC | 339 |

| Query Match | Similarity | Score | DB 3 | Length |
|-------------|------------|---|------|-----------------------------------|
| Best Local | 67.3% | Pred. No. 1.8e-42; | | |
| Matches | 228; | Conservative | 1; | Mismatches 110; Indels 0; Gaps 0; |
| Query | 1 | CTCGACAGTACCCGAGCGCGACATTCRCACCGAGACGACATCTTACCAATGCTGCCAACT | 60 | |
| Db | 1 | CTCCACAGTCACTAGAGCGCAGCATCCGATCCGACGAGAGGACAAATTTTACCAATGTTGGACTT | 60 | |
| Query | 61 | TGACCCGGTGGCAGGCAAGGCTATTACATCTGTGACTGAGGGGCTGTACTGGCGWGGGCC | 120 | |
| Db | 61 | GGACCCCCMAACCCCGCATGCGCATACAGTCCCTCACTAGAGGCTTTTATGTCGGGGGCC | 120 | |
| Query | 121 | CATGATGAACTCCCGTGGTCAATCATGTGGAATACCGTAGTGCCGAGCCAGTGCGTGTCT | 180 | |
| Db | 121 | TCTTACCAATTCMAAGGGGGAGAACTGGGGCTACCGCAGGTGCCGCGAGGGGCTACT | 180 | |
| Query | 181 | CACCAAGAGCTTGGGCAATACCTTAACAATGCTATTTTGAAGCACAAGACGCTGTAGGGC | 240 | |
| Db | 181 | GACAACTAGCTGTGGTAAACCTTCACTTTGGTCAATCAAGGCCGGGAGCCTGTTCAGCC | 240 | |
| Query | 241 | AGCAAAGCTCAAAAATATGACATGTTAGTCTGCGGAGACGATCTAGTGTATTGCGGGA | 300 | |
| Db | 241 | CGCAGGGGCTCAGGAGCTCACACATGCTGTGTGTGTGGCCACGACCTTAGTGTATTCTGTGA | 300 | |
| Query | 301 | GAGTGGAGAGATCTCTGAGGATGTTTGAACGCCCTTGGAAC | 339 | |
| Db | 301 | AAGTCCGGGGGTCCAGGAGGAGCGCGGAGGCTTGAGAC | 339 | |

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? INFORMATION FOR SEQ ID NO: 2:
?
? SEQUENCE CHARACTERISTICS:
?
? LENGTH: 340 Nucleotides
? TYPE: Nucleic Acid
? STRANDEDNESS: single
?
? TOPOLOGY: linear
?
? MOLECULE TYPE: DNA
?
? ORIGINAL SOURCE:
?
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NAME: Doreen Yacko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEO ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5pt1
US-08-442-144A-3

Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGACATCCRCACCGAGACGACATCTACCATGTGCGCACT 60
DB 1 CTCGACAGTCAGTGAAGAGGACATCCGTACGAGAGGAGGAGCAATCTCAATGTGTGATCT 60
QY 61 TGACCCGGTGGCAGCAGGCTATTACATCTCTGATGAGCGGCTGTACTGCGGCGGCC 120
DB 61 GGAACCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTAGTTGGGGGCC 120
QY 121 CATGATGAATCTCCGCTGTCAATCATGTGATACCGTACGCGGAGCCAGTGGCGTGT 180
DB 121 TCTTACCAATTCAGAGGGGGAGAACTGCGGCTACCGCAGGTGCCGGCGAGCGGCTACT 180
QY 181 CACCAAGAGCTTGGGCATATCCCTAATCATGTATTGAAAGACAGACGCTGTAGGGC 240
DB 181 GACAACTAGCTGTGTAAATACCTCACTGTACATCAAGGCGCGGAGCGCTGTGAGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTAGTCTGCGAGAGCGATCTAGTGTATCGCGGA 300
DB 241 CGCAGGGCTCCGAGACTGACCATCTCTGTGTGTGACAGCATTTGCTTATCTGTGA 300
QY 301 GAGTGAAGAGTCTCTGAGAGATGTGACGCCCTGCGAGC 339
DB 301 GAGTGGGGGGTCCAGAGAGACGCGCGAGCCTGAGAGC 339

RESULT 15

US-08-441-970-2
Sequence 2, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-970-2

Query Match 47.8%; Score 162.6; DB 3; Length 340;
Best Local Similarity 67.3%; Pred. No. 1.8e-42;
Matches 228; Conservative 1; Mismatches 110; Indels 0; Gaps 0;

QY 1 CTCGACAGTCACCGAGCGGACATCCRCACCGAGACGACATCTACCATGTGCGCACT 60
DB 1 CTCGACAGTCAGTGAAGAGGACATCCGTACGAGAGGAGGAGCAATTTACCAATGTGTGACT 60
QY 61 TGACCCGGTGGCAGCAGGCTATTACATCTCTGATGAGCGGCTGTACTGCGGCGGCC 120
DB 61 GGAACCCCAAGCCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTGGGGGCC 120
QY 121 CATGATGAATCTCCGCTGTCAATCATGTGATACCGTACGCGGAGCCAGTGGCGTGT 180
DB 121 TCTTACCAATTCAGAGGGGGAGAACTGCGGCTACCGCAGGTGCCGGCGAGCGGCTACT 180
QY 181 CACCAAGAGCTTGGGCATATCCCTAATCATGTATTGAAAGACAGACGCTGTAGGGC 240
DB 181 GACAACTAGCTGTGTAAATACCTCACTGTACATCAAGGCGCGGAGCGCTGTGAGC 240
QY 241 AGCAAGCTCAAAAACTATGACATGTAGTCTGCGAGAGCGATCTAGTGTATCGCGGA 300
DB 241 CGCAGGGCTCCAGAGACTGACCATCTGTGTGTGACAGCATTTGCTTATCTGTGA 300
QY 301 GAGTGAAGAGTCTCTGAGAGATGTGACGCCCTGCGAGC 339
DB 301 AAGTGGGGGGTCCAGAGAGACGCGCGAGCCTGAGAGC 339

Search completed: January 11, 2006, 14:46:40
Job time : 100.519 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-93

Perfect score: 340
Sequence: 1 cccctccgcagcagcagcgtg.....atcgccggggccctgcgagtc 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 339.6 | 99.9 | 340 | 3 | US-08-836-075A-93 |
| 2 | 250.6 | 73.8 | 340 | 3 | US-08-836-075A-91 |
| 3 | 217.6 | 64.0 | 340 | 3 | US-08-836-075A-89 |
| 4 | 187.6 | 55.2 | 340 | 3 | US-08-836-075A-95 |
| 5 | 172.8 | 50.8 | 340 | 3 | US-08-836-075A-55 |
| 6 | 166.8 | 49.1 | 9413 | 3 | US-09-827-688-6 |
| 7 | 166.4 | 48.9 | 340 | 3 | US-08-836-075A-57 |
| 8 | 166.4 | 48.9 | 340 | 3 | US-08-836-075A-85 |
| 9 | 165.6 | 48.7 | 340 | 3 | US-08-836-075A-61 |
| 10 | 165.6 | 48.7 | 340 | 3 | US-08-836-075A-99 |
| 11 | 165.6 | 48.7 | 1782 | 3 | US-09-597-877-11 |
| 12 | 165.2 | 48.6 | 340 | 3 | US-08-441-971-11 |
| 13 | 165.2 | 48.6 | 340 | 3 | US-08-221-653-11 |
| 14 | 165.2 | 48.6 | 340 | 3 | US-08-442-144A-11 |
| 15 | 165.2 | 48.6 | 340 | 3 | US-08-441-970-11 |
| 16 | 165.2 | 48.6 | 340 | 3 | US-09-878-281A-114 |
| 17 | 165.2 | 48.6 | 340 | 3 | US-09-878-281A-205 |
| 18 | 163.6 | 48.1 | 340 | 3 | US-08-441-971-8 |
| 19 | 163.6 | 48.1 | 340 | 3 | US-08-441-971-20 |
| 20 | 163.6 | 48.1 | 340 | 3 | US-08-221-653-8 |
| 21 | 163.6 | 48.1 | 340 | 3 | US-08-221-653-20 |
| 22 | 163.6 | 48.1 | 340 | 3 | US-08-442-144A-8 |
| 23 | 163.6 | 48.1 | 340 | 3 | US-08-442-144A-20 |
| 24 | 163.6 | 48.1 | 340 | 3 | US-08-441-970-8 |

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|----|-------|------|------|---|--------------------|-------------------|
| 25 | 163.6 | 48.1 | 340 | 3 | US-08-441-970-20 | Sequence 20, Appl |
| 26 | 163.6 | 48.1 | 1730 | 3 | US-09-878-281A-207 | Sequence 207, App |
| 27 | 162.4 | 47.8 | 340 | 3 | US-09-194-949A-14 | Sequence 14, Appl |
| 28 | 162 | 47.6 | 340 | 3 | US-08-441-971-12 | Sequence 12, Appl |
| 29 | 162 | 47.6 | 340 | 3 | US-08-221-653-12 | Sequence 12, Appl |
| 30 | 162 | 47.6 | 340 | 3 | US-08-442-144A-12 | Sequence 12, Appl |
| 31 | 162 | 47.6 | 340 | 3 | US-08-441-970-12 | Sequence 12, Appl |
| 32 | 161.2 | 47.4 | 340 | 3 | US-08-836-075A-53 | Sequence 53, Appl |
| 33 | 161 | 47.4 | 340 | 3 | US-08-836-075A-83 | Sequence 83, Appl |
| 34 | 160.4 | 47.2 | 340 | 3 | US-08-441-971-2 | Sequence 2, Appl |
| 35 | 160.4 | 47.2 | 340 | 3 | US-08-221-653-2 | Sequence 2, Appl |
| 36 | 160.4 | 47.2 | 340 | 3 | US-08-442-144A-2 | Sequence 2, Appl |
| 37 | 160.4 | 47.2 | 340 | 3 | US-10-259-275-41 | Sequence 41, Appl |
| 38 | 160.4 | 47.2 | 6189 | 3 | US-09-539-601-10 | Sequence 10, Appl |
| 39 | 160.4 | 47.2 | 7989 | 3 | US-10-005-468-1 | Sequence 1, Appl |
| 40 | 160.4 | 47.2 | 7992 | 3 | US-10-005-469-2 | Sequence 2, Appl |
| 41 | 160.4 | 47.2 | 7992 | 3 | US-10-005-469-4 | Sequence 4, Appl |
| 42 | 160.4 | 47.2 | 7992 | 3 | US-10-005-469-5 | Sequence 5, Appl |
| 43 | 160.4 | 47.2 | 7992 | 3 | US-10-005-469-6 | Sequence 6, Appl |
| 44 | 160.4 | 47.2 | 7992 | 3 | US-10-005-469-3 | Sequence 3, Appl |
| 45 | 160.4 | 47.2 | 7995 | 3 | US-10-005-469-3 | Sequence 3, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-93
; Sequence 93, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MARTENS, GERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 93:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-93

Query Match 99.9%; Score 339.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 9,5e-97;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CTCCTCCGTCACGAGCGTGTGACATCCGCACTGAACACGACATCTATCAGNGTCCCAATT 60
    |||
QY 61 AGATCCGCTAGCAGCGAAAGCCATTACATCTCTTACTGAGCGGCTGACTGCGGCGGCC 120
    |||
DB 61 AGATCCGCTAGCAGCGAAAGCCATTACATCTCTTACTGAGCGGCTGACTGCGGCGGCC 120
    |||
QY 121 CATGTCAAACTCTCGAGGTCATGATGTGGTACCGGAGTGGCGGGCTGATGTGTCTT 180
    |||
DB 121 CATGTCAAACTCTCGAGGTCATGATGTGGTACCGGAGTGGCGGGCTGATGTGTCTT 180
    |||
QY 181 CACCAAGAGCTGGGGAACACATGACATGCTGAAAGGCTCAGCGGCTTGTAGGGC 240
    |||
DB 181 CACCAAGAGCTGGGGAACACATGACATGCTGAAAGGCTCAGCGGCTTGTAGGGC 240
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QY 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
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DB 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
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QY 301 GAGCGGAGAGTCCCTGAGGATCCCGGGCCCTGCGAGTC 340
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DB 301 GAGCGGAGAGTCCCTGAGGATCCCGGGCCCTGCGAGTC 340
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RESULT 2

US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS-004
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-91

Query Match 73.8%; Score 250.8; DB 3; Length 340;
Best Local Similarity 83.4%; Pred. No. 7.1e-69;
Matches 282; Conservative 2; Mismatches 54; Indels 0; Gaps 0;

```
QY 1 CTCCTCCGTCACGAGCGTGTGACATCCGCACTGAACACGACATCTATCAGTGTCCCAATT 60
    |||
DB 1 CTCGACAGTCACGAGCGGACCGGACATCCRCACGAGACGACATCTACCAATGCTGCCAACT 60
    |||
QY 61 AGATCCGCTAGCAGCGAAAGCCATTACATCTCTTACTGAGCGGCTGACTGCGGCGGCC 120
    |||
DB 61 TGACCCGGGTGGCAGCCAAAGGCTATTACATCTCTGACTGAGCGGCTGACTGCGGCGGCC 120
    |||
QY 121 CATGTCAAACTCTCGAGGTCATGATGTGGTACCGGAGTGGCGGGCTGATGTGTCTT 180
    |||
DB 121 CATGTCAAACTCTCGAGGTCATGATGTGGTACCGGAGTGGCGGGCTGATGTGTCTT 180
    |||
QY 181 CACCAAGAGCTGGGGAACACATGACATGCTGAAAGGCTCAGCGGCTTGTAGGGC 240
    |||
DB 181 CACCAAGAGCTGGGGAACACATGACATGCTGAAAGGCTCAGCGGCTTGTAGGGC 240
    |||
QY 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGACCTAGTGTATTGCTGA 300
    |||
DB 241 AGCRAAGCTCAAAAACCTTGACATGTGTCTGCGAGACGATGTGATGTGTATGCGCGA 300
    |||
QY 301 GAGCGGAGAGTCCCTGAGGATCCCGGGCCCTGCGAG 338
    |||
DB 301 GAGTGAGAGAGTCTCTGAGGATGTTGACGCCCTGCGAG 338
    |||
```

RESULT 3

US-08-836-075A-89
Sequence 89, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESSES:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-89

Query Match 64.0%; Score 217.6; DB 3; Length 340;
 Best Local Similarity 77.5%; Pred. No. 1.9e-58;
 Matches 262; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGTGAACATCCGACATGACATCTATCAGTGTGCCAATT 60
 DB 1 CTCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCACTGCTGTAACTT 60
 QY 61 AGATCCGATGACACGAGAAACCATTAATCTCTTACTGAGCGGCTGTACTGCGGCGCC 120
 DB 61 GAGGCGCGAGACGAGACGACCATCATCGCTTACTGACCGATTGTACTCAGGAGTGTCC 120
 QY 121 CATGTACAACTCTCGAGTGTGATGATGAGTACCGGAGTGTCCGAGTGTGTCTT 180
 DB 121 CATGTAACTCTAAAGGTTCAGGATGTGATACCTAGTGTCAAGGCGCATGTGGCTCTT 180
 QY 181 GACCAAGCTTGGGCAACCATCATGCTACTGAAAGGCTCAGGCGGCTTTAGAGGC 240
 DB 181 GACCAAGCTTGGGCAACCATCATGCTACTGAAAGGCTCAGGCGGCTGTAGAGGC 240
 QY 241 AGCRAAGCTCAAAACCTTTGACATGTTGTCTGCGGAGACGACCTAGTGTATTGCTGA 300
 DB 241 TCCCGGGCTGAAGACTTGTGACATGTTGTCTGCGGAGACGACCTGTATTGCTGA 300
 QY 301 GAGCGGAGAGTCCCTGAGAGATCCGCGGCGCTGCGAG 338
 DB 301 GAGTTTGGGGTCTCGAGAGACCTAGTGCACCTGCGAG 338

RESULT 4

US-08-836-075A-95
 Sequence 95, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,075A
 FILING DATE: 21 Apr 1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/EP95/04155
 FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 94870166.9
 FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 95:

SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-95

Query Match 55.2%; Score 187.6; DB 3; Length 340;
 Best Local Similarity 72.0%; Pred. No. 4.9e-49;
 Matches 244; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 2 TCCTCCGTCACGAGCGTGAACATCCGACATGACATCTATCAGTGTGCCAATTA 61
 DB 2 TCACAGTCACAGAGCGGAGTGTCCAGACGAGCATGACATCTACCACTGCTGTAACTT 61
 QY 62 GATCCGATGACACGAGAAACCATTAATCTCTTACTGAGCGGCTGTACTGCGGCGCC 121
 DB 62 GACCAAGCGCGGAGAAACCATTAATCTCTTACTGAGCGGCTGTACTGCGGCGCC 121
 QY 122 ATGTAACTCTCGAGTGTGATGATGAGTACCGGAGTGTCCGAGTGTGTCTT 181
 DB 122 ATGTAACTCTCGAGTGTGATGATGAGTACCGGAGTGTCCGAGTGTGTCTT 181
 QY 182 ACCAAGCTTGGGCAACCATCATGCTACTGAAAGGCTCAGGCGGCTTTAGAGGC 241
 DB 182 CCCAAGCTTGGGCAACCATCATGCTACTGAAAGGCTCAGGCGGCTTTAGAGGC 241
 QY 242 GCGGCTTAAAGATTAATGATGATGTTGTCTGCGGAGACGATTTGTTGTTACTGAG 301
 DB 242 GCGGCTTAAAGATTAATGATGATGTTGTCTGCGGAGACGATTTGTTGTTACTGAG 301
 QY 302 AGCGGAGAGTCCCTGAGAGATCCGCGGCGCTGCGAGTC 340
 DB 302 AGTGTGAGATCAACGAGATATCGTAACTGCGAGCC 340

RESULT 5

US-08-836-075A-55
 Sequence 55, Application US/08836075A
 Patent No. 6180768
 GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT
 APPLICANT: STUYVER, LIEVEN
 TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 NUMBER OF SEQUENCES: 207
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: ARNOLD, WHITE & DURKEE
 STREET: P.O. BOX 4433
 CITY: HOUSTON
 STATE: TEXAS
 COUNTRY: USA
 ZIP: 77210-4433

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-55

Query Match 50.8%; Score 172.8; DB 3; Length 340;
Best Local Similarity 68.8%; Pred. No. 2.2e-44;
Matches 224; Conservative 2; Mismatches 104; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGTACATCCGACCTGAAACGACATATACAGTGTGCCAATT 60
DB 1 CTCGACAGTATCGAAGAACGACATCCGTACCGAGATCAATATCAATGTTGTACTT 60
QY 61 AGATCCGGTAGACAGGAAGCCATTACATCTTACTGAGCGGCTGACTGCGGCGCC 120
DB 61 GGGCCCTGAGGCGCCGCGAGGCCATTAAAGTCTCAACGAGCGGCTGTAGCTGGGGGCC 120
QY 121 CATGTACAACCTCTGAGGTGATGATGTGGGTACCCGAGGTGCGGGCTGTGTCTT 180
DB 121 CCTAACCAATTCAAGGGGCGAGAACTGCGGCTATCGTGGGTGTCGCGCTAGCGCGTGT 180
QY 181 CACCAAGCTTGGGCAACGCCATGATGATCTACTGAAAGGCTCAGGCGGCTGTGAGGGC 240
DB 181 GACCAACAGCTGGGCAACCCCTCAATGCTACTTGAAGCCAGGCGGCGCTGTGAGGC 240
QY 241 AGCRAAGCTCAAAACCTTTGACATGTTGTCTGCGAGAGACGACTAGTCTTATGCTGA 300
DB 241 TGCAAAGCTCCAGAGACTGCACAGTCTCTGTGTGGGAGAGAGACTTGTCTTATCTGTA 300
QY 301 GAGCGGAGAGATCCCTGAGGATCGCGGGGCGCTTGCAGATC 340
DB 301 GAGCGGCGGAGTCAAGAGAGACCGGCGGAACCTAGCAGATC 340

RESULT 6
US-09-827-688-6
Sequence 6, Application US/09827688
Patent No. 6821955
GENERAL INFORMATION:
APPLICANT: ORSON, FRANK
APPLICANT: KINSEY, BERNA
APPLICANT: BHOGAL, BALBIR
TITLE OF INVENTION: MACROAGGREGATED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION
FILE REFERENCE: P01949U51/10004014
CURRENT APPLICATION NUMBER: US/09/827,688
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: 60/195,680
PRIOR FILING DATE: 2000-04-07
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.0

SEQ ID NO 6
LENGTH: 9413
TYPE: DNA
ORGANISM: HEPATITIS C
US-09-827-688-6

Query Match 49.1%; Score 166.8; DB 3; Length 9413;
Best Local Similarity 67.9%; Pred. No. 5.8e-42;
Matches 231; Conservative 1; Mismatches 108; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGTACATCCGACCTGAAACGACATATACAGTGTGCCAATT 60
DB 8261 CTCGACAGTATCGAAGAACGACATCCGTACCGAGATCAATATCAATGTTGTACTT 8320
QY 61 AGATCCGGTAGACAGGAAGCCATTACATCTTACTGAGCGGCTGACTGCGGCGCC 120
DB 8321 GGGCCCTGAGGCGCCGAGGCCATTAAAGTCTGTACAGAGCGGCTTATGTGCGGGCTC 8380
QY 121 CATGTACAACCTCTGAGGTGATGATGTGGGTACCGAGGTGCGGGGCTAGTGTCTT 180
DB 8381 CCGTACTAATTCGAAAGGGGCAAGAACTGGCGTTATGCGCGGTGCGCAAGTGGCGTCT 8440
QY 181 CACCAAGCTTGGGCAACCCATGATGATCTACTGTAAGGCTCAGGCGGCTGTGAGGC 240
DB 8441 GACGACTAGCTGGGCAACCCCTCAATGTTACTTGAAGGCCACTGCGGCGCTGTGAGC 8500
QY 241 AGCRAAGCTCAAAACCTTTGACATGTTGTCTGCGAGAGACGACTAGTCTTATGCTGA 300
DB 8501 TGCAAAGCTCCAGAGCTGCACAGTCTGTGAAAGGAAACGACTTGTCTTATCTGTA 8560
QY 301 GAGCGGAGAGTCCCTGAGGATCGCGGGGCGCTTGCAGATC 340
DB 8561 GAGTGGGGAACCCAGAGAGATGCGGCGGCGCTTACGAGCC 8600

RESULT 7
US-08-836-075A-57
Sequence 57, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MARTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 57:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-57

Query Match 48.9%; Score 166.4; DB 3; Length 340;
 Best Local Similarity 67.6%; Pred. No. 2.2e-42;
 Matches 230; Conservative 2; Mismatches 108; Indels 0; Gaps 0;

```

QY 1 CTCCTCCGTACAGGAGCGTGAATCCGCACTGAACGACATCTATCACTGCTCCCAATT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCGACAGTACTGAGAACGACATTCGTGTCGAGGAAATCAATCTACAGTCTGTGACTT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 AGATCCGGTAGACCGAAGCCATTATCATCTTACTAGCGGCTGTACTGGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGGCCCGGAGGCCCGGAGGCAATTAAGTGGCTCACCAGCGGCTGTATATCGGGGGTTC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 CATGTACAACCTCTGAGGTCAATGTGAGTACCGCAGGTGCGGGCTAGTGTCTTT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CCTAACAACTCAAAAAGGCGAAGACTGGGGCTACGCTGGTCCGGCGCAGGGGGTGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCAAGAGCTGGGCAACACATGACATGCTACTGAAGGCTCAGGGGCTTTAGGGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 181 GACTACAGAGCTCGGTAATATCCCTCACAATGTTACTGAAAGCCAGGGCGGCTGTGAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 AGCBAAGCTCAAAACTTTGACATGTGGTCTGGGAGAGCACTAGTGTATTGCTGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 241 TCGAAGCTTCAGAGACTGCACATGCTCTGTGCGGAGCACTTGTGTATCTGTGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCGAGAGATCCCTGAGATGCCGGGCGCTGCGAGTC 340
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 301 GAGTGCAGGAGTCAAGAGAGATGCCGCGAACCCTACGAGTC 340
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
  
```

RESULT 8
 US-08-836-075A-85
 ; Sequence 85, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/EP95/04155
 ; FILING DATE: 23 Oct 1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: EP 94870166.9
 ; FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 85:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-85

Query Match 48.9%; Score 166.4; DB 3; Length 340;
 Best Local Similarity 67.6%; Pred. No. 2.2e-42;
 Matches 230; Conservative 2; Mismatches 108; Indels 0; Gaps 0;

```

QY 1 CTCCTCCGTACAGGAGCGTGAATCCGCACTGAACGACATCTATCACTGCTCCCAATT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 CTCACAGGTGACTGAAAAGACATCAGGGTGAAGAGATCTATCAATGTTGACCT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 AGATCCGGTAGACCGAAGCCATTATCATCTTACTAGAGGGCTGTACTCGGGCGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 61 GGAATCCGAGCCCGCAAGCAATATCGCCCTCACAAGAGGCTCTTACTTGGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 CATGTACAACCTCTGAGGTCAATGTGAGTACCGCAGGTGCGGGCTAGTGTCTTT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 121 CATGTATAACAGCAAGGGAGCTCTGGGGTATCGAGAGTCCGGCGAGCGAGTGA 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCAAGAGCTGGGCAACACATGACATGCTTACTGAAGGCTCAGGGGCTTTAGGGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 181 CACCAAGAGTTCGGAAACACAGTGAACCTGTATCTTAAGGCCACCGGACTACCAAGGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 AGCBAAGCTCAAAACTTTGACATGTGGTCTGGGAGAGCACTAGTGTATTGCTGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 241 TCGAAGCTTCAGAGACTGCACATGCTGTGTGCGGAGCACTTGTGTATCTGTGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCGAGAGATCCCTGAGATGCCGGGCGCTGCGAGTC 340
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 301 GAGCGAGGCGCTAAGAGAGATTCACCAACCCCTCGAGCC 340
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
  
```

RESULT 9
 US-08-836-075A-61
 ; Sequence 61, Application US/08836075A
 ; Patent No. 6180768
 ; GENERAL INFORMATION:
 ; APPLICANT: MAERTENS, GEERT
 ; APPLICANT: STUYVER, LIEVEN
 ; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
 ; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
 ; NUMBER OF SEQUENCES: 207
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ARNOLD, WHITE & DURKEE
 ; STREET: P.O. BOX 4433
 ; CITY: HOUSTON
 ; STATE: TEXAS
 ; COUNTRY: USA
 ; ZIP: 77210-4433
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Microsoft Word 6.0 / ASCII text output
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/836,075A
 ; FILING DATE: 21 Apr 1997

```

/ RESULT 10
/ US-08-836-075A-99
/ Sequence 99, Application US/08836075A
/ Patient No 6180768
/
/ GENERAL INFORMATION:
/
/ APPLICANT: MARTIENS, GEBERT
/ APPLICANT: STUYVER, LIEVEN
/ TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
/ TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
/ TITLE OF INVENTION: AGENTS
/ NUMBER OF SEQUENCES: 207
/
/ CORRESPONDENCE ADDRESS:
/ ADDRESSER: ARNOLD, WHITE & DURKEE
/ STREET: P. O. BOX 4433
/
/ CITY: HOUSTON
/
/ STATE: TEXAS
/
/ COUNTRY: USA
/
/ ZIP: 77210-4433
/
/ COMPUTER READABLE FORM:
/
/ MEDIUM TYPE: Floppy disk
/

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RESULT 11
US-09-597-877-11
; Sequence 11, Application US/09597877
; Patent No. 6461845
;
; GENERAL INFORMATION:
; APPLICANT: Hagedorn, Curt H.
; TITLE OF INVENTION: Recombinant Hepatitis C Virus RNA Replicase
; FILE REFERENCE: 76-95B
; CURRENT APPLICATION NUMBER: US/09/597, 877
; CURRENT FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 60/004,383
; PRIOR FILING DATE: 1995-09-27
; PRIOR APPLICATION NUMBER: 08/722,806
; PRIOR FILING DATE: 1996-09-27
;

```

```

1 FILING DATE: 8 May 1991
2 ATTORNEY/AGENT INFORMATION:
3 NAME: Janiuk, Anthony J.
4 REGISTRATION NUMBER: 29,809
5 REFERENCE/DOCKET NUMBER: C0772/7000
6 TELECOMMUNICATION INFORMATION:
7 TELEPHONE: (617) 720-3500
8 TELEFAX: (617) 720-2441
9
10 TELEX: EZEKIEL
11 INFORMATION FOR SEQ ID NO: 11:
12 SEQUENCE CHARACTERISTICS:
13 LENGTH: 340 nucleotides
14 TYPE: nucleic acid
15 STRANDEDNESS: single
16 TOPOLOGY: linear
17 MOLECULE TYPE: DNA
18 ORIGINAL SOURCE:
19 INDIVIDUAL ISOLATE: ns5ep1
20
21 US-08-441-971-11
22
23 Query Match 48.6%; Score 165.2; DB 3; Length 340;
24 Best Local Similarity 67.6%; Pred. No. 5,3e-42;
25 Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0
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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiak, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5ep1
;
US-08-221-653-11

Query Match          48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred. No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;

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DB 1 CTCACAGTCAGTCAGAGTACATCCGTGTGAGGAGTCAATTACCAATTGTGTGACTT 60
QY 61 AGATCCGATGACGAGGAAGCCATTACATCTCTTACTGAGCGGCTGTACTGCGGGGCC 120
DB 61 GGGCCCCGAGGCAAGACAGGCTATTAAGTGTGCTCACAGGCGGCTGTATCATGGGGGCTC 120
QY 121 CATGTAACTCTCGAGGTCACTCATGTGGTACCGCAGGTCCCGGGCTAGTGTCTT 180
DB 121 CCTGACTAATTCAAAAGGCGCAAGTCTGCGGTATCCCGGTCCCGCAGGCGGTGT 180
QY 181 CACCAAGCTTGGGCAACACATGATGCTACTCTGAAGGCTCAGGCGCTTGTAGGGC 240
DB 181 GACGACTAGCTCGGTAAACCCCTCAATGTTAAGGCGCTCTGCGGCTGTGAGC 240
QY 241 AGCRAAGCTCAAAACTTTGACATGTTGTCTGCGGAGCGACCTAGTCTTATGCTGA 300
DB 241 TGCGAAGCTCCAGAGCTGACATGCTGTGTGCGGTGACGACCTTGTCTGTGTA 300
QY 301 GAGCGAGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
DB 301 GAGCGGGAACCCAAAGAGGAGCGCGGCAAGCTTAGAGTC 340

RESULT 14
US-08-442-144A-11
; Sequence 11, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
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; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yaeiko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5ep1
;
US-08-442-144A-11

Query Match          48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred. No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gaps 0;

QY 1 CTCCTCCGTCACGAGCGGTGACATCCGACGTAAACGACATCTATCACTGCTGCCAATT 60
DB 1 CTCACAGTCAGTCAGAGTACATCCGTGTGAGGAGTCAATTACCAATTGTGTGACTT 60
QY 61 AGATCCGATGACGAGGAAGCCATTACATCTCTTACTGAGCGGCTGTACTGCGGGGCC 120
DB 61 GGGCCCCGAGGCAAGACAGGCTATTAAGTGTGCTCACAGGCGGCTGTATCATGGGGGCTC 120
QY 121 CATGTAACTCTCGAGGTCACTCATGTGGTACCGCAGGTCCCGGGCTAGTGTCTT 180
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QY 301 GAGCGAGAGTCCCTGAGATGCGGGGCGCTGCGAGTC 340
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RESULT 15
US-08-441-970-11
; Sequence 11, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
```

CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: ns5sp1
INDIVIDUAL ISOLATE: ns5sp1
US-08-441-970-11

Query Match 48.6%; Score 165.2; DB 3; Length 340;
Best Local Similarity 67.6%; Pred No. 5.3e-42;
Matches 230; Conservative 1; Mismatches 109; Indels 0; Gap# 0;

QY 1 CTCCTCCGTCACGAGCGTGAATCGCATCGACATGTAACGACATCTATCAATGCTGCCAAT 60
DB 1 CTCACAGTCACTGAGAGTACATCCGTGTGAGAGTCAATTACCAATGTTGTGACTT 60
QY 61 AGATCGGTAGACGCGAAAGCCATTACATCTTACTAGAGCGGCTGTACTGCGCGCC 120
DB 61 GGGCCCCGAGCGACAGACAGGCTATAGGTCCCTCACAGAGCGGCTGTACATCGGGGCTCC 120
QY 121 CATGTACAACCTCGAGGTCACTGTCATGTGGGTACCGGAGTGGCGGCTAGTGTCTT 180
DB 121 CCTGACTAATTAAGAGGAGGAGTGAACCTGCTATGCGCGTGCAGCGAGGCGGTCT 180
QY 181 CACCAAGACTTGGGCAACACCATGATGCTACCTGAAGGCTCAGCGGCTTGTAGGAC 240
DB 181 GACGACTAGCTCGGTAACACCTCAATGTTACTGAAGGCTCTGCGGCTGTGAGAC 240
QY 241 AGCRAAGCTCAAAAATTGATGATGTGCTGTGCGGAGACGACTTATGTTATGCTGA 300
DB 241 TCGGAAGCTCCAGGAGTCAAGATGCTGTGTGCGGTGACGACCTTGTGTTATCTGTA 300
QY 301 GAGCGGAGAGTCCCTGAGATGCGGGGCGCTGGAAGTC 340
DB 301 GAGCGGGAGACCCAGAGAGCGCGGCGAGCTTACGAGTC 340

Search completed: January 11, 2006, 14:46:41
Job time : 101.519 secs

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QY 301 AAGCAAGGGGGTGAAGAGACCAACGAGACCTACGA 337
DB 8642 GAGCCAGAGTAAAGAGAGAGAGAGAAACCTGAGA 8678

RESULT 15

US-07-925-695-7
; Sequence 7, Application us/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; TITLE OF INVENTION: DETECTION SYSTEMS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Weillacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Weillacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEX: WUI 64470
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-7

Query Match 64.2%; Score 218.2; DB 2; Length 9511;
Best Local Similarity 77.7%; Pred. No. 5,9e-59;
Matches 262; Conservative 1; Mismatches 74; Indels 0; Gaps 0;

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QY 301 AAGCAAGGGGGTGAAGAGACCAACGAGACCTACGA 337
DB 8642 GAGCCAGTAAAGAGAGAGAGAGAAACCTGAGA 8678

Search completed: January 11, 2006, 14:46:46
Job time : 101.519 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-95

Perfect score: 340

Sequence: 1 atccacagctcacgggagcg.....atcgcctaacctgcgagcc 340

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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| 2 | 187.6 | 55.2 | 340 | US-08-836-075A-93 | Sequence 93, Appl |
| 3 | 176.6 | 51.9 | 340 | US-08-836-075A-91 | Sequence 91, Appl |
| 4 | 171.4 | 50.4 | 340 | US-09-878-281A-211 | Sequence 211, App |
| 5 | 170 | 50.0 | 340 | US-08-441-971-2 | Sequence 2, Appl |
| 6 | 170 | 50.0 | 340 | US-08-221-653-2 | Sequence 2, Appl |
| 7 | 170 | 50.0 | 340 | US-08-442-144A-2 | Sequence 2, Appl |
| 8 | 170 | 50.0 | 340 | US-08-441-971-2 | Sequence 2, Appl |
| 9 | 168.4 | 48.5 | 340 | US-08-441-971-5 | Sequence 5, Appl |
| 10 | 168.4 | 48.5 | 340 | US-08-221-653-5 | Sequence 5, Appl |
| 11 | 168.4 | 48.5 | 340 | US-08-442-144A-5 | Sequence 5, Appl |
| 12 | 168.4 | 48.5 | 340 | US-08-441-970-5 | Sequence 5, Appl |
| 13 | 168.4 | 48.5 | 1710 | US-09-208-140-3 | Sequence 3, Appl |
| 14 | 168.4 | 48.5 | 9599 | US-09-827-688-7 | Sequence 7, Appl |
| 15 | 168.4 | 48.5 | 9599 | US-09-014-416-2 | Sequence 2, Appl |
| 16 | 168.4 | 48.5 | 9599 | US-09-014-416-6 | Sequence 6, Appl |
| 17 | 168.4 | 48.5 | 9646 | US-08-811-566-1 | Sequence 1, Appl |
| 18 | 168.4 | 48.5 | 9646 | US-09-034-756-1 | Sequence 1, Appl |
| 19 | 168.4 | 48.5 | 10803 | US-10-259-275-17 | Sequence 17, Appl |
| 20 | 168.4 | 48.5 | 12980 | US-08-811-566-5 | Sequence 5, Appl |
| 21 | 168.4 | 48.5 | 12980 | US-09-034-756-5 | Sequence 5, Appl |
| 22 | 166.8 | 49.1 | 340 | US-08-441-971-4 | Sequence 4, Appl |
| 23 | 166.8 | 49.1 | 340 | US-08-221-653-4 | Sequence 4, Appl |
| 24 | 166.8 | 49.1 | 340 | US-08-442-144A-4 | Sequence 4, Appl |

| | | | | | |
|----|-------|------|------|-------------------|-------------------|
| 25 | 166.8 | 49.1 | 340 | US-08-441-970-4 | Sequence 4, Appl |
| 26 | 166.8 | 49.1 | 1710 | US-09-208-140-1 | Sequence 1, Appl |
| 27 | 166.8 | 49.1 | 9401 | US-08-432-693-1 | Sequence 1, Appl |
| 28 | 166.8 | 49.1 | 9416 | US-08-811-566-19 | Sequence 19, Appl |
| 29 | 166.8 | 49.1 | 9416 | US-09-034-756-19 | Sequence 19, Appl |
| 30 | 165.2 | 48.6 | 340 | US-08-441-971-3 | Sequence 3, Appl |
| 31 | 165.2 | 48.6 | 340 | US-08-441-971-20 | Sequence 20, Appl |
| 32 | 165.2 | 48.6 | 340 | US-08-221-653-3 | Sequence 3, Appl |
| 33 | 165.2 | 48.6 | 340 | US-08-221-653-20 | Sequence 20, Appl |
| 34 | 165.2 | 48.6 | 340 | US-08-442-144A-3 | Sequence 3, Appl |
| 35 | 165.2 | 48.6 | 340 | US-08-442-144A-20 | Sequence 20, Appl |
| 36 | 165.2 | 48.6 | 340 | US-08-441-970-3 | Sequence 3, Appl |
| 37 | 165.2 | 48.6 | 340 | US-08-441-970-20 | Sequence 20, Appl |
| 38 | 165.2 | 48.6 | 9416 | US-08-823-895A-26 | Sequence 26, Appl |
| 39 | 165.2 | 48.6 | 9416 | US-10-104-966-13 | Sequence 13, Appl |
| 40 | 165.2 | 48.6 | 9416 | US-09-929-955-13 | Sequence 13, Appl |
| 41 | 163.6 | 48.1 | 340 | US-08-441-971-1 | Sequence 1, Appl |
| 42 | 163.6 | 48.1 | 340 | US-08-441-971-22 | Sequence 22, Appl |
| 43 | 163.6 | 48.1 | 340 | US-08-221-653-1 | Sequence 1, Appl |
| 44 | 163.6 | 48.1 | 340 | US-08-221-653-22 | Sequence 22, Appl |
| 45 | 163.6 | 48.1 | 340 | US-08-442-144A-1 | Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-95
Sequence 95, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARMOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 95:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-95

Query Match 99.7%; Score 339; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.1e-105;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCCACAGTCAGGGGGGCGGACATACGACAGAAACGATTTACTGTCGCGCAGCT 60
DB 1 ATCCACAGTCAGGGGGGCGGACATACGACAGAAACGATTTACTGTCGCGCAGCT 60
QY 61 CGACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGGGGGGCCC 120
DB 61 CGACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGGGGGGCCC 120
QY 121 TATGTACAACCTCAAGAGGGCCAACTCTGTGTCAAGCCGATGCGGACAGGAGTACT 180
DB 121 TATGTACAACCTCAAGAGGGCCAACTCTGTGTCAAGCCGATGCGGACAGGAGTACT 180
QY 181 CCCCAAGACATGGGTGAACCATCATGCTTCCGAAAGGCAACCGCGCTTGGCGGAC 240
DB 181 CCCCAAGACATGGGTGAACCATCATGCTTCCGAAAGGCAACCGCGCTTGGCGGAC 240
QY 241 AGCCGGCTTTACAGATTATGACATGTTGGTCTGCGGAGACGATTTGGTTGCTAACTGA 300
DB 241 AGCCGGCTTTACAGATTATGACATGTTGGTCTGCGGAGACGATTTGGTTGCTAACTGA 300
QY 301 GAGTGTGAGTCAACGAGAGATTCGCTAACCTGCGAGCC 340
DB 301 GAGTGTGAGTCAACGAGAGATTCGCTAACCTGCGAGCC 340

RESULT 2

US-08-836-075A-93
Sequence 93, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-93

Query Match 55.2%; Score 187.6; DB 3; Length 340;
Best Local Similarity 72.0%; Pred. No. 6e-54;
Matches 244; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGCGACATACGACAGAAACGATTTACTGTCGCGCAGCTC 61
DB 2 TCCTCCGTCACGAGAGCGGTGACATCCGCACTGAACGACATCTATCACTGTCGCAATTA 61
QY 62 GACCCAGAGGGCCCGGAAAGCCATAAGTCTCTCACTGAGAGGCTTATGTGGGGGGCCT 121
DB 62 GATCCGTTAGACGAGAAAGCCATTACATCTTACTGAGCGGCTGTACTGCGGCGGGCCC 121
QY 122 ATGTACAACCTCAAGAGGGCCAACTCTGTGTCAAGCCGATGCGGACAGGAGTACTC 181
DB 122 ATGTACAACCTCAAGAGGGCCAACTCTGTGTCAAGCCGATGCGGAGTACTGAGTGTCTTC 181
QY 182 CCCCAAGACATGGGTGAACCATCATGCTTCCGAAAGGCAACCGCGCTTGGCGGAC 241
DB 182 ACCAAGCTTGGGCAACCATCATGCTTCTGAAAGGCTCAAGCGGCTTGTAGGGCA 241
QY 242 GCGGGCTTTACAGATTATGACATGTTGGTCTGCGGAGACGATTTGGTTGCTAACTGAG 301
DB 242 GCGAAGCTCAAAAATTGACATGTTGGTCTGCGGAGACGACTGATGTTATGCTGAG 301
QY 302 AGTGTGAGTCAACGAGAGATTCGCTAACCTGCGAGCC 340
DB 302 AGCGAGAGTCTCGAGAGATGCGGGCGCTGCGAGTC 340

RESULT 3

US-08-836-075A-91
Sequence 91, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ. ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-91

Query Match 51.9%; Score 176.6; DB 3; Length 340;
Best Local Similarity 69.8%; Pred. No. 3.5e-50;
Matches 236; Conservative 1; Mismatches 101; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATATACGACAGAACNAGATTACCTGCTCCAGCTC 61
DB 2 TGACAGTCACGGAGGGGACATCCACCGACAGACATCTACCAATGCTGCCAATT 61
QY 62 GACCCAGAGGCGCGGAAGCCATTAAGTCTCTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGCTGACGCAAGGCTATTACATCTGACGAGCGGCTGTACTGCGMGGGCC 121
QY 122 ATGTACAATCAAGGGCCCACTCTGTGTCAACGCCGATGCCGAGCAAGGAGTACTC 181
DB 122 ATGTACAATCTCCGCTGTATCATCTGTGATACCGTAAAGTGGCCAGTGGCTC 181
QY 182 CCCACAGCATGGGTAAACCATCATGCTCTCTGAAGCAACGCCCTTGGCCGAGA 241
DB 182 ACCACAGCTTGGGCAATACCTTAACATGCTATTGAAGCACAGACAGCTGTAGGGA 241
QY 242 GCCGCTTACAGATTATGATGTTGTCTGCGAGAGCATTTGTTTCTGTAAGTAC 301
DB 242 GCAAGCTCAAAAATATGATGTTGTCTGCGAGAGCATCTAGCTTATCGCGAG 301
QY 302 AGTGTGAGTCAACGAGATATCGCTAACCTGCGAGC 339
DB 302 AGTGTGAGTCTGTGAGATGTTGACGCTGCGAGC 339

RESULT 4

US-09-878-281A-211
Sequence 211, Application US/09878281A
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 211
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: misc feature
LOCATION: (11)..(11)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (327)..(327)
OTHER INFORMATION: "n" is any nucleotide
FEATURE:
NAME/KEY: misc feature
LOCATION: (333)..(334)
OTHER INFORMATION: "n" is any nucleotide

FEATURE:
NAME/KEY: misc feature
LOCATION: (340)..(340)
OTHER INFORMATION: "n" is any nucleotide
US-09-878-281A-211

Query Match 50.4%; Score 171.4; DB 3; Length 340;
Best Local Similarity 68.6%; Pred. No. 2.1e-48;
Matches 232; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTCACGGGGCGGACATATACGACAGAACNAGATTACCTGCTCCAGCTC 61
DB 2 TGACAGTCACGGAGGGGACATCCACCGACAGACATCTACCAATGCTGCCAATT 61
QY 62 GACCCAGAGGCGCGGAAGCCATTAAGTCTCTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGAGAGCGCGGAGGTTATACCGCTCTCACTGAGAGCTTATGTGGGGCCAGC 121
QY 122 ATGTACAATCAAGGGCCCACTCTGTGTCAACGCCGATGCCGAGCAAGGAGTACTC 181
DB 122 ATGTACAAGCAAGGAGACCTGTGCGGACAGCGCGGTGCGCAAGGGCGTGTTC 181
QY 182 CCCACAGCATGGGTAAACCATCATGCTCTCTGAAGCAACGCCCTTGGCCGAGA 241
DB 182 ACCACAGCTTGGGCAATACCTTAACATGCTATTGAAGCACAGCTGTAAGAGCA 241
QY 242 GCCGCTTACAGATTATGATGTTGTCTGCGGAGAGCATTTGTTGCTGTAAGTAC 301
DB 242 GCCGCTTAAAGATTGACATGCTGTGTGCGGTGACGATTAAGTGTATTTTCCAG 301
QY 302 AGTGTGAGTCAACGAGATATCGCTAACCTGCGAGC 339
DB 302 AGCGCGGTGTGAGAGAGATCCCANAAACCCNCGACC 339

RESULT 5

US-08-441-971-2
Sequence 2, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR DIAGNOSIS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-971-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6.2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTACGCGGCGGCGACATACGACAGAAACNAGATTACCTGCTGCCAGCTC 61
DB 2 TCACAGTACGCGGCGGCGACATACCTGACGAGAGGCAATTTACCAATGTTGTGACTG 61
QY 62 GACCCGAGAGCGCGGAAAGCCATTAAGTCTTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGAGAGCGCGGATGCGATCAAGTCCCTCACTGAGAGGCTTATGTGGGGCCCT 121
QY 122 ATGTACAACTCAAGAGGCGCAACTCTGTGTCAACGCCGATGCCGAGACGCGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTGCGGCTACCGAGGCGCGCGAGCGGCGTACTG 181
QY 182 CCCAAGCATGGGTAAACCATCATGCTCTCTGAAGGCAACCCGCTTGGCCGAGCA 241
DB 182 ACACTAGCTGTGTAAACCCCTCACTTGTATCATGAAGCCCGGCGACGCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTGTGTCGCGAGAGCAATTTGTTGTCTGTAAG 301
DB 242 GCAGGAGCTCCAGAGACTGACACATGCTGTGTGTGGCGAGCACTTATGTTGTGAA 301
QY 302 AGTCTGAGTCAACGAGATATCGCTAACCTGCCAGCC 340
DB 302 AGTGGGGGCTCCAGAGAGCGCGGAGCTGAGAGCC 340

RESULT 6
US-08-221-653-2
Sequence 2, Application US/08221653
Patent No. 6190864
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:

NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29, 809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-221-653-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6.2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTACGCGGCGGCGACATACGACAGAAACNAGATTACCTGCTGCCAGCTC 61
DB 2 TCACAGTACGCGGCGGCGACATACCTGACGAGAGGCAATTTACCAATGTTGTGACTG 61
QY 62 GACCCGAGAGCGCGGAAAGCCATTAAGTCTTCACTGAGAGGCTTATGTGGGGCCCT 121
DB 62 GACCCGAGAGCGCGGATGCGATCAAGTCCCTCACTGAGAGGCTTATGTGGGGCCCT 121
QY 122 ATGTACAACTCAAGAGGCGCAACTCTGTGTCAACGCCGATGCCGAGACGCGAGTACTC 181
DB 122 CTTACCAATTCAAGGGGGGAGAACTGCGGCTACCGAGGCGCGCGAGCGGCGTACTG 181
QY 182 CCCAAGCATGGGTAAACCATCATGCTCTCTGAAGGCAACCCGCTTGGCCGAGCA 241
DB 182 ACACTAGCTGTGTAAACCCCTCACTTGTATCATGAAGCCCGGCGACGCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTGTGTCGCGAGAGCAATTTGTTGTCTGTAAG 301
DB 242 GCAGGAGCTCCAGAGACTGACACATGCTGTGTGTGGCGAGCACTTATGTTGTGAA 301
QY 302 AGTCTGAGTCAACGAGATATCGCTAACCTGCCAGCC 340
DB 302 AGTGGGGGCTCCAGAGAGCGCGGAGCTGAGAGCC 340

RESULT 7
US-08-442-144A-2
Sequence 2, Application US/08442144A
Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Under
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalco Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-442-144A-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6,2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTCACGCGGCGGACATACGACAGAAACAGACATTTACCTGCTCCAGCTC 61
DB 2 TCACAGTCACGCGGCGGACATACGACAGAAACAGACATTTACCTGCTCCAGCTC 61
QY 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTGGGGCCCT 121
DB 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTGGGGCCCT 121
QY 122 ATGTACACTCAAGGCGCACTGTGTGTCACAGCGGATGCGAGCAAGGAGTACTC 181
DB 122 CTTCACATTTCAAGGGGGAAGACTGCGGCTACCGAGGTGCGCGGAGCGGCTACTG 181
QY 182 CCCACAGCATGGGTAAACACATCATCTCTCTGTAAGGCAACCGCGCTTGCGAGCA 241
DB 182 ACAACTAGCTGTGTAAACACCTCTCTACATCAAGCGCGGCACTGTGAGGCC 241
QY 242 GCCGCTTACAGATTATGACATGTGTCTGCGGAGAGATTGTGCTGTAAGTGA 301
DB 242 GGAGGCTTCAGAGACTGACCATGTGTGTGTGGGAGAGACTTGTGTTATCTGTGA 301
QY 302 AGTGTGAGTCAACGAGATATCGTACTGCGAGCC 340
DB 302 AGTGTGAGGCTTCAGAGAGAGCGGCGGAGCTGAGAGCC 340

RESULT 8
US-08-441-970-2
Sequence 2, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible

OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiak, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5121
US-08-441-970-2

Query Match 50.0%; Score 170; DB 3; Length 340;
Best Local Similarity 68.7%; Pred. No. 6,2e-48;
Matches 233; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 2 TCACAGTCACGCGGCGGACATACGACAGAAACAGACATTTACCTGCTCCAGCTC 61
DB 2 TCACAGTCACGCGGCGGACATACGACAGAAACAGACATTTACCTGCTCCAGCTC 61
QY 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTGGGGCCCT 121
DB 62 GACCCAGAGCCCGGAAAGCCATTAAGTCTCTACAGAGAGCTCTATGTGGGGCCCT 121
QY 122 ATGTACACTCAAGGCGCACTGTGTGTCACAGCGGATGCGAGCAAGGAGTACTC 181
DB 122 CTTCACATTTCAAGGGGGAAGACTGCGGCTACCGAGGTGCGCGGAGCGGCTACTG 181
QY 182 CCCACAGCATGGGTAAACACATCATCTCTCTGTAAGGCAACCGCGCTTGCGAGCA 241
DB 182 ACAACTAGCTGTGTAAACACCTCTCTACATCAAGCGCGGCACTGTGAGGCC 241
QY 242 GCCGCTTACAGATTATGACATGTGTCTGCGGAGAGATTGTGCTGTAAGTGA 301
DB 242 GGAGGCTTCAGAGACTGACCATGTGTGTGTGGGAGAGACTTGTGTTATCTGTGA 301
QY 302 AGTGTGAGTCAACGAGATATCGTACTGCGAGCC 340
DB 302 AGTGTGAGGCTTCAGAGAGAGCGGCGGAGCTGAGAGCC 340

RESULT 9
US-08-441-971-5
Sequence 5, Application US/08441971
Patent No. 6071693

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts

```

; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5us17
;
US-08-441-971-5

Query Match          49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2.2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 2 TTCACAGTCACGGGGCGGCACATACGACAGAAACNAGACATTTACTGCTGCGCAGCTC 61
DB 2 TTCACAGTCACGAGAGCCGATATCCGTACGAGAGGACATATACAGATGTTGTGACTG 61
QY 62 GACCCAGAGGCCCGGAAAGCCATTAAGTCTCTCACTGAGAGGCTCTATGTGCGGGCCCT 121
DB 62 GACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGGGGCTTTATGTGCGGGCCCT 121
QY 122 ATGTACACTCAAAAGGGCCCAACTCTGTGTCACACGCGCATGCCGACCAAGCGAGTATC 181
DB 122 CTTACCAATTTCAAGGGGGGAAACCTGCGCTATGCGAGGTGCCGCAAGCGCGTACTG 181
QY 182 CCCACAGCATGGGTAAACCATCATATGCTTCTGAAGGCAACCCGCGTTGCGCAGCA 241
DB 182 ACAACTAGCTGTGTAAACCCCTCACTTGTATACATCAAGGCCCAACAGCCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTTGCTGCGAGAGAGATTGTTGTCGTAACCTGAG 301
DB 242 GCAGGGCTCCGGGACTGCAACATGCTGCTGTGTGCGAGCACTTAAGTCTGTATCTGTAA 301
QY 302 AGTGCTGAGTCAACGAGGATATGCTAATCCTGCGAGCC 340
DB 302 AGTCAGGAGTCCAGAGGATGACGAGCAACCTGAGGCC 340

RESULT 10
US-08-221-653-5
; Sequence 5, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
```

```

; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5us17
;
US-08-221-653-5

Query Match          49.5%; Score 168.4; DB 3; Length 340;
Best Local Similarity 68.4%; Pred. No. 2.2e-47;
Matches 232; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 2 TTCACAGTCACGGGGCGGCACATACGACAGAAACNAGACATTTACTGCTGCGCAGCTC 61
DB 2 TTCACAGTCACGAGAGCCGATATCCGTACGAGAGGACATATACAGATGTTGTGACTG 61
QY 62 GACCCAGAGGCCCGGAAAGCCATTAAGTCTCTCACTGAGAGGCTCTATGTGCGGGCCCT 121
DB 62 GACCCCAAGCCCGGTGGCCATCAAGTCCCTCACCGAGGGGCTTTATGTGCGGGCCCT 121
QY 122 ATGTACAACTCAAAAGGGCCCAACTCTGTGTCACACGCGCATGCCGACCAAGCGAGTATC 181
DB 122 CTTACCAATTTCAAGGGGGGAAACCTGCGCTATGCGAGGTGCCGCAAGCGCGTACTG 181
QY 182 CCCACAGCATGGGTAAACCATCATATGCTTCTGAAGGCAACCCGCGTTGCGCAGCA 241
DB 182 ACAACTAGCTGTGTAAACCCCTCACTTGTATACATCAAGGCCCAACAGCCTGTGAGCC 241
QY 242 GCCGCTTTACAGATTATGACATGTTGCTGCGGAGAGGATTGTTGTCGTAACCTGAG 301
DB 242 GCAGGGCTCCGGGACTGCAACATGCTGCTGTGTGCGAGCACTTAAGTCTGTATCTGTAA 301
QY 302 AGTGCTGAGTCAACGAGGATATGCTAATCCTGCGAGCC 340
DB 302 AGTCAGGAGTCCAGAGGATGACGAGCAACCTGAGGCC 340

RESULT 11
US-08-442-144A-5
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| | | | |
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| QY | 242 | GCCGGCTTTACAAATTATGACATGTTGGTCTCGGAGACGATTGTGTCGTAACTAG | 301 |
| | | | |
| Db | 242 | GCAGGGCTCCGGGACTGCACCATGCTCGTGTGTGGGACGACTTGTAGTCGTATCTGTAA | 301 |
| QY | 302 | AGTGCCTGAGTCAACGAGGATATCGTTAACCCTGCCAGCC | 340 |
| | | | |
| Db | 302 | AGTCAGGAGATCCAGAGAGATGCAGGAACTGTAAAGCC | 340 |

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RESULT 13
US-09-208-140-3
; Sequence 3, Application US/09208140
; Patent No. 6228576
; GENERAL INFORMATION:
; APPLICANT: Del Vecchio, Alfred
; TITLE OF INVENTION: HEPATITIS C VIRUS NS5B TRUNCATED PROTEIN
; FILE OF INVENTION: RAD METHODS THEREOF TO IDENTIFY ANTI-VIRAL COMPOUNDS
; TITLE REFERENCE: P50743
; CURRENT APPLICATION NUMBER: US/09/208,140
; CURRENT FILING DATE: 1998-12-09
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 1710
; TYPE: DNA
; ORGANISM: Viral
US-09-208-140-3

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| | | | | |
|---------------------------|--------|--------------------|-----------|--------------|
| Query Match | 49.5%; | Score 168.4; | DB 3; | Length 1710; |
| Best Local Similarity | 68.4%; | Pred. No. 4.7e-47; | | |
| Matches 232; Conservative | 0; | Mismatches 107; | Indels 0; | Gaps 0 |

QY 2 TCACAGTACGGGGGGCGACATACGACAGAACAGAACATTTACCTGCTCCGACCTC 6
Db 676 TCCACAGTCACTGAGAGCGACATCCCTGACGAGAGAGGCAATTTCACCAATGTTGTGACTG 735
QY 62 GACCCAGAGGCCCGGAAAGCCATAAAGTCTCTACTGAGAGGCTCTATGTCGGGGGCCCT 121
Db 736 GACCCCCAGGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT 795
QY 122 ATGTACAACTCAAAAGGGCCAACTCTGTGTCAACGCCGATGCGGACGAGAGTACT¹ 181
Db 796 CTTACCAATTCAAGGGGGGAAAACTCGCGCTACCGCAGGTGCCCGCGAGCGCGTAACTG 855
QY 182 CCCACAAGATGGGTGAACACCATCAATGCTTCTGTAAGGCACCGCGCGTTGCCGAGCA 241
Db 856 ACACTAGCTGTGTAAACCTCTCACTTGCTTAATCAAGGCCCGGGGACGCTGTGAGCC 915
QY 242 GCCGCGTTTACAGATTATGACATGTGTGCTGCGGAGACGATTTGTTGTCTPACTGAC 301
Db 916 GCAGGGCTCCAGAGACTGCACCATGCTCTGTGTGGCAGCAGCACTTAATCGTTATCTGTGA 975
QY 302 AGTGTGAGATCAACGAGATATCGTAACTGCGAGCC 340
Db 976 AGTGGGGGGTCCAGAGAGCGCGGCGAGCTTGAGACC 1014

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RESULT 14
US-09-827-688-7
; Sequence 7, Application US/09827688
; Patent No. 6821955
; GENERAL INFORMATION:
; APPLICANT: ORSON, FRANK
; APPLICANT: KINSEY, BERMA
; APPLICANT: BHOGAL, BALBIR
; TITLE OF INVENTION: MACROREGULATED PROTEIN CONJUGATES AS ORAL GENETIC IMMUNIZATION L
; TITLE OF INVENTION: AGENTS
; FILE REFERENCE: P01949U51/10004014
; CURRENT APPLICATION NUMBER: US/09/827,688
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: 60/195,680
; PRIOR FILING DATE: 2000-04-07

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; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 7
; LENGTH: 9365
; TYPE: DNA
; ORGANISM: HEPATITIS C
; US-09-827-668-7

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| | | | | |
|-----------------------|-----------------|------------------|-----------|--------------|
| Query Match | 49.5%; | Score 168.4; | DB 3; | Length 9365; |
| Best Local Similarity | 68.4%; | Pred. No. 1e-46; | | |
| Matches 232; | Conservative 0; | Mismatches 107; | Indels 0; | Gaps 0; |

| | | | |
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| QY | 2 | TCGACAGTCACGGGGCCGACATTCGACAGAAAMAACATTACCTCGTCCGACCTC | 61 |
| Db | 8265 | TCGACAGTCACGTAGAGGACATCCGTAACGGAGGCAATTTCACATGTGTGAACTTG | 8324 |
| QY | 62 | GACCCAGAGGGCCGGGAAAGCCATTAAATCTCTCACTAGAGGGCTCTATGTGCGGGGCGCT | 121 |
| Db | 8325 | GACCCCCAGAGCCCGCGTGGCCATTAAAGTCCCTCACTAGAGGCTTTATGTGTGGGGGCGCT | 8384 |
| QY | 122 | ATGTACAACTCAAAAGGGCCACTCTGTGTCTCAAGCCGATGCGAGCAAGCGAGTACTC | 181 |
| Db | 8385 | CTTACCAATTCAAGGGGGGAAAACTGGCGGTACCGCAGGTGCGCGGAGGCGGCGTACTG | 8444 |
| QY | 182 | CCCAACAAGATGGTTACACCATCAATGCTTCTGAAAGGGAACCGCGGCTCTGCCGAGCA | 241 |
| Db | 8445 | ACAATCACTGTGGTAACACCTCACTGTCTACATCAAGGCGCGGAGCGCTGTGCAAGCC | 8504 |
| QY | 242 | GCCGGCTTTACAGATTATGACATGTGGTCTGCGAAGACGATTTGGTTGCTGAACCTAG | 301 |
| Db | 8505 | GCAAGGGCTCCAGAGACCGCACCATCTCGTGTGTGGCGACGACTTAAGTCGTTATCTGTGA | 8564 |
| QY | 302 | AGTGTGAGTCACAGAGGATATGAGCTTAACCTGGAGGCG | 340 |
| Db | 8565 | AGTGGGGGGTCCAGAGGAGACGGCGGACGCTTGAGAGCC | 8603 |

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RESULT 15
US-09-014-416-2
; Sequence 2, Application US/0901416
; Patent No. 6153621
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Bukh, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 9599
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-014-416-2

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[illegible]

QY 122 ATGTACAACTCAAGGGCCAACTGTGTGTCACGCCGATGCGGACGAAGCGAGTACTC 181
 Db 8397 CTTACCAATTCAGGGGGGAAACTGCGGCTACCCGAGGTGCGCGGAGCGGCTACTG 8456
 QY 182 CCCACAGCATGGGTAAACCATCATGCTTCTGAAGGCAACCGCGCTTGCCGAGCA 241
 Db 8457 ACAACTAGCTGTGTAAACCCCTCACTGTACATCAAGGCCCGGGCAGCCTGTGAGCC 8516
 QY 242 GCCGCTTTACAGATTATGACATGTTGCTGCGGAGAGCAATTGTTGTCTACTAG 301
 Db 8517 GCAGGCTTCCAGACTGCAACGATGCTGCTGTGTGCGAGAGCTTAATCTGTGAA 8576
 QY 302 AGTCTGAGTCAACGAGATATCGCTAACCTGCGAGCC 340
 Db 8577 AGTGGGGGTCCAGAGGACGCGGCGAGCCTGAGAGCC 8615

Search completed: January 11, 2006, 14:46:42
 Job time : 101.519 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-99

Perfect score: 340
Sequence: 1 ctccacgcgcacagagaggg.....accacgggacctacgagtc 340

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 340 | 100.0 | 340 | 3 | US-08-836-075A-99 |
| 2 | 309.8 | 91.1 | 340 | 3 | US-08-836-075A-105 |
| 3 | 304.6 | 86.6 | 335 | 3 | US-08-836-075A-101 |
| 4 | 221.2 | 65.1 | 340 | 3 | US-09-878-281A-215 |
| 5 | 219.2 | 64.5 | 9511 | 2 | US-07-925-695-6 |
| 6 | 219.2 | 64.5 | 9511 | 2 | US-07-925-695-7 |
| 7 | 218.4 | 64.2 | 340 | 3 | US-08-441-971-15 |
| 8 | 218.4 | 64.2 | 340 | 3 | US-08-221-653-15 |
| 9 | 218.4 | 64.2 | 340 | 3 | US-08-442-144A-15 |
| 10 | 218.4 | 64.2 | 340 | 3 | US-08-441-970-15 |
| 11 | 218 | 64.1 | 340 | 3 | US-08-441-971-16 |
| 12 | 218 | 64.1 | 340 | 3 | US-08-221-653-16 |
| 13 | 218 | 64.1 | 340 | 3 | US-08-442-144A-16 |
| 14 | 218 | 64.1 | 340 | 3 | US-08-441-970-16 |
| 15 | 213.6 | 62.8 | 340 | 3 | US-08-836-075A-71 |
| 16 | 213.2 | 62.7 | 340 | 3 | US-08-441-971-17 |
| 17 | 213.2 | 62.7 | 340 | 3 | US-08-221-653-17 |
| 18 | 213.2 | 62.7 | 340 | 3 | US-08-442-144A-17 |
| 19 | 213.2 | 62.7 | 340 | 3 | US-08-441-970-17 |
| 20 | 208.8 | 61.4 | 2693 | 2 | US-07-925-695-4 |
| 21 | 208.8 | 61.4 | 9589 | 2 | US-07-925-695-1 |
| 22 | 208.8 | 61.4 | 9589 | 2 | US-07-925-695-2 |
| 23 | 206.8 | 60.8 | 340 | 3 | US-08-441-971-13 |
| 24 | 206.8 | 60.8 | 340 | 3 | US-08-221-653-13 |

| | | | | | | |
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| 25 | 206.8 | 60.8 | 340 | 3 | US-08-442-144A-13 | Sequence 13, Appl |
| 26 | 206.8 | 60.8 | 340 | 3 | US-08-441-970-13 | Sequence 13, Appl |
| 27 | 205.6 | 60.5 | 340 | 3 | US-09-878-281A-145 | Sequence 145, App |
| 28 | 202.4 | 59.5 | 340 | 3 | US-08-441-971-14 | Sequence 14, Appl |
| 29 | 202.4 | 59.5 | 340 | 3 | US-08-836-075A-69 | Sequence 69, Appl |
| 30 | 202.4 | 59.5 | 340 | 3 | US-08-221-653-14 | Sequence 14, Appl |
| 31 | 202.4 | 59.5 | 340 | 3 | US-08-442-144A-14 | Sequence 14, Appl |
| 32 | 202.4 | 59.5 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 33 | 200.8 | 59.1 | 340 | 3 | US-08-836-075A-79 | Sequence 79, Appl |
| 34 | 187.2 | 55.1 | 340 | 3 | US-08-836-075A-77 | Sequence 77, Appl |
| 35 | 186.4 | 54.8 | 340 | 3 | US-08-836-075A-73 | Sequence 73, Appl |
| 36 | 174.8 | 51.4 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 37 | 174.2 | 51.2 | 340 | 3 | US-08-836-075A-83 | Sequence 83, Appl |
| 38 | 173.2 | 50.9 | 340 | 3 | US-09-878-281A-201 | Sequence 201, App |
| 39 | 170.4 | 50.1 | 340 | 3 | US-09-878-281A-106 | Sequence 106, App |
| 40 | 169.8 | 49.9 | 340 | 3 | US-09-878-281A-211 | Sequence 211, App |
| 41 | 168.8 | 49.6 | 340 | 3 | US-09-878-281A-112 | Sequence 112, App |
| 42 | 168.4 | 49.5 | 340 | 3 | US-09-878-281A-116 | Sequence 116, App |
| 43 | 167.2 | 49.2 | 340 | 3 | US-09-878-281A-207 | Sequence 207, App |
| 44 | 166.8 | 49.1 | 340 | 3 | US-08-836-075A-85 | Sequence 85, Appl |
| 45 | 166.8 | 49.1 | 340 | 3 | US-08-836-075A-87 | Sequence 87, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-99
Sequence 99, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEBERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-99

Query Match 100.0%; Score 340; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 1.7e-106;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CTTCTACCGTCACAGAGAGGAGCATACGACAGAGAGATCTATCTGTCTTGTCAATT 60
DB 1 CTTCTACCGTCACAGAGAGGAGCATACGACAGAGAGATCTATCTGTCTTGTCAATT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTGAAGAGAGCTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTGAAGAGAGCTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
DB 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
QY 181 CACCAACAGCTTGGGGAGACACCATGATCTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
DB 181 CACCAACAGCTTGGGGAGACACCATGATCTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
QY 241 CCGTGCATTGTAGACCCGATGCTGCTGTGCGGTGACGACCTAGTGTATCTCAGA 300
DB 241 CCGTGCATTGTAGACCCGATGCTGCTGTGCGGTGACGACCTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGGGTGAGAGAGAGACCGGAGCCTACGAGTTC 340
DB 301 AAGCAAGGGGGGTGAGAGAGAGACCGGAGCCTACGAGTTC 340
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RESULT 2

US-08-836-075A-105
Sequence 105, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 105:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-105

Query Match 91.1%; Score 309.8; DB 3; Length 340;
Best Local Similarity 94.1%; Pred. No. 3.9e-96;
Matches 320; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

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QY 1 CTTCTACCGTCACAGAGAGGAGCATACGACAGAGAGATCTATCTGTCTTGTCAATT 60
DB 1 CTTCTACCGTCACAGAGAGGAGCATACGACAGAGAGATCTATCTGTCTTGTCAATT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTGAAGAGAGCTATACGTGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGTGAAGAGAGCTATACGTGGCGGCC 120
QY 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
DB 121 GATGAAAAACAGACAGAGGCGCAGCTTGGGATATAGCGCTTGGCGGCAAGGGGGTATT 180
QY 181 CACCAACAGCTTGGGGAGACACCATGATCTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
DB 181 CACCAACAGCTTGGGGAGACACCATGATCTTACATCAAGCTAAAGCGGCTTTGTAAGC 240
QY 241 CCGTGCATTGTAGACCCGATGCTGCTGTGCGGTGACGACCTAGTGTATCTCAGA 300
DB 241 CCGTGCATTGTAGACCCGATGCTGCTGTGCGGTGACGACCTAGTGTATCTCAGA 300
QY 301 AAGCAAGGGGGGTGAGAGAGAGACCGGAGCCTACGAGTTC 340
DB 301 AAGCAAGGGGGGTGAGAGAGAGACCGGAGCCTACGAGTTC 340
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RESULT 3

US-08-836-075A-101
Sequence 101, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 101:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 335 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-101

Query Match 89.6%; Score 304.6; DB 3; Length 335;
 Best Local Similarity 93.4%; Pred. No. 2,4e-94;
 Matches 313; Conservative 4; Mismatches 18; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTCAATT 60
 DB 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTCAATT 60
 QY 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120
 DB 61 GCGCGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120
 QY 121 GATGAAAAACAGAAAGGCGCAGGCTTGGGATATAGCGTGGCGGCGGAGGATATT 180
 DB 121 GATGAAAAACAGAAAGGCGCAGGCTTGGGATATAGCGTGGCGGCGGAGGATATT 180
 QY 181 CACCAACAGCTTGGGGAACACCATGCTTGTACATCAAGCTTAAAGCGGCTTTAAAGC 240
 DB 181 CACCAACAGCTTGGGGAACACCATGCTTGTACATCAAGCGCAAGCCTTTAAAGC 240
 QY 241 CCGTGGCATTTAGACCCGGTATGCTGTGTGCGGTGACGACTTATGATCTCA 300
 DB 241 YCGTGGCATTTAGACCCGGTATGCTGTGTGCGGTGACGACTTATGATCTCA 300
 QY 301 AAGCAAGGGGTGAGAGAGAGACCAAGCGGACCTTAC 335
 DB 301 GAGCAAGGGGTGAGAGAGAGACCAAGCGGACCTTAC 335

RESULT 4

US-09-878-281A-215
 Sequence 215, Application US/09878281A
 Patent No. 6762024
 GENERAL INFORMATION:
 APPLICANT: Immunogenetics N.V.
 TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, proph
 TITLE OF INVENTION: and therapy
 FILE REFERENCE: 35
 CURRENT APPLICATION NUMBER: US/09/878,281A
 CURRENT FILING DATE: 2001-06-12
 NUMBER OF SEQ ID NOS: 284
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 215
 LENGTH: 340
 TYPE: DNA
 ORGANISM: hepatitis C virus
 US-09-878-281A-215

Query Match 65.1%; Score 221.2; DB 3; Length 340;
 Best Local Similarity 78.4%; Pred. No. 1e-65;
 Matches 265; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTCAATT 60
 DB 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTCAATT 60
 QY 61 GCGTGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120
 DB 61 GCGCGAAGAGGCGCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120

DB 61 GCCCAAGAGGCCAGAACTGTATACACTCGCTCACCGAGAGACTTACGTGGAGGCGC 120
 QY 121 GATGAAAAACAGAAAGGCGCAGCTTGGGATATAGGCGTGGCGGAAAGCGGATATT 180
 DB 121 GATGAAAAACAGAAAGGCGCAGCTTGGGATATAGGCGTGGCGGAAAGCGGATATT 180
 QY 181 CACCAACAGCTTGGGGAACACCATGCTTGTACATCAAGCTTAAAGCGGCTTTAAAGC 240
 DB 181 CACCAACAGCTTGGGGAACACCATGCTTGTACATCAAGCGCTTGTAAAGC 240
 QY 241 CCGTGGCATTTAGACCCGGTATGCTGTGTGCGGTGACGACTTATGATCTCA 300
 DB 241 CCGAGGATTCGTGAGCCCGGTATGCTGTGTGTGAGAGCAGACTGTGTATCTCGGA 300
 QY 301 AAGCAAGGGGTGAGAGAGACCAAGCGGACCTTACAG 338
 DB 301 GAGCAAGGGGTGAGAGAGACCAAGCGGACCTTACAG 338

RESULT 5

US-07-925-695-6
 Sequence 6, Application US/07925695
 Patent No. 5428145
 GENERAL INFORMATION:
 APPLICANT: OKAMOTO, Hiroaki
 APPLICANT: NAKAMURA, Tetsuo
 TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME.
 TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
 STREET: 1850 M Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: US
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/925,695
 FILING DATE: 19920807
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 287402/91
 FILING DATE: 09-AUG-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 360441/91
 FILING DATE: 05-DEC-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Wellacher, Robert G.
 REGISTRATION NUMBER: 20,531
 REFERENCE/DOCKET NUMBER: 06/87-48009
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 659-2811
 TELEFAX: (202) 659-1462
 TELEX: WUI 64470
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9511 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-07-925-695-6

Query Match 64.5%; Score 219.2; DB 2; Length 9511;
 Best Local Similarity 63.9%; Pred. No. 2.8e-64;
 Matches 216; Conservative 48; Mismatches 74; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAGAATCCATCTATCTGTCTTCAATT 60

Db 8342 CUCAAACCGCACGGAGAGGGACCAUAGAACAGAAAGCAUCCAUUUAUACAGCGCUGUUCUCU 84010
QY 61 GCTTGAAAGAGCGCCGGAAAAGCCATTAAATCGCTGACAGAGAGACTATACGTGCGCGGCC 120
Db 8402 GCGUCAAAGAGCCAAACACUGUACAUACACUCGCTCACUGAGAGACUUUUAUGUAGAGGCGCC 84610
QY 121 GATGGAATAACAGCAAGGGCGAGGCGTTGGGGATATAGAGCGTGGCGGCAAGCGGGGTATT 180
Db 8462 CAGUCAAACACGAAAGGGCAUACCUUGCGGCUACAGCGCUGUCCCGGACGCGAGUUUU 85210
QY 181 CACCAACAAGCTTGGGGAAACCCATGACTTGTATCATCAAAAGCTTAAAGCGGCTTGTAAAC 240
Db 8522 CACCAACAGCAATGGGGAUUAACAUAGCAUUAUCAAAGCCUUGCAGCGUGUAAAGCC 85810
QY 241 CGCTGGCATTTGTAAGACCCCGGTATGCTGCTGTGCGGTGACCAACCTTAGTGTATCTCAGA 300
Db 8582 UGCGRGGGAUCUGGGAGCCUGUUAUUGUUGUGUGGAGACGACCUGUGUUAUCUCAGA 86410
QY 301 AAGCAAGGGGCGTGGAGAGGAGCAGCGGGAGCCTTAGAG 338
Db 8642 GAGCCAGGUAACGAGAGAGGAGCAGCGGAAACCTTAGAG 8679

```

1      RESULT 6
2      US-07-925-695-7
3      / Sequence 7, Application US/07925695
4      / Patent No. 5428145
5      /
6      / GENERAL INFORMATION:
7      / APPLICANT: OKAMOTO, Hiroaki
8      / APPLICANT: NAKAMURA, Tetsuo
9      / TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
10     / TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
11     / TITLE OF INVENTION: DETECTION SYSTEMS
12     / TITLE OF INVENTION: DETECTION SYSTEMS
13     /
14     / NUMBER OF SEQUENCES: 9
15     / CORRESPONDENCE ADDRESSES:
16     / ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
17     / STREET: 1850 M Street, N.W., Suite 800
18     / CITY: Washington
19     / STATE: D.C.
20     / COUNTRY: US
21     /
22     / ZIP: 20036
23     /
24     / COMPUTER READABLE FORM:
25     / MEDIUM TYPE: Floppy disk
26     / COMPUTER: IBM PC compatible
27     / OPERATING SYSTEM: PC-DOS/MS-DOS
28     / SOFTWARE: Patent In Release #1.0, Version #1.25
29     /
30     / CURRENT APPLICATION DATA:
31     / APPLICATION NUMBER: US/07/925,695
32     / FILING DATE: 19920807
33     / CLASSIFICATION: 435
34     /
35     / PRIOR APPLICATION DATA:
36     / APPLICATION NUMBER: JP 287402/91
37     / FILING DATE: 09-AUG-1991
38     /
39     / PRIOR APPLICATION DATA:
40     / APPLICATION NUMBER: JP 360441/91
41     / FILING DATE: 05-DEC-1991
42     /
43     / ATTORNEY/AGENT INFORMATION:
44     / NAME: Wellacher, Robert G.
45     / REGISTRATION NUMBER: 20,531
46     / REFERENCE/DOCKET NUMBER: 06/87-48009
47     / TELECOMMUNICATION INFORMATION:
48     / TELEPHONE: (202) 659-2811
49     / TELEFAX: (202) 659-1462
50     /
51     / TELEX: WUI 64470
52     /
53     / INFORMATION FOR SEQ ID NO: 7:
54     / SEQUENCE CHARACTERISTICS:
55     / LENGTH: 9511 base pairs
56     / TYPE: NUCLEIC ACID
57     / STRANDEDNESS: single
58     / TOPOLOGY: linear
59     /
60     / US-07-925-695-7

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| | Query Match | Best Local Match | Similarity | 64.5%; | Score 219.2; | DB 2; | Length 9511; |
|----|-------------|--|--------------|---------------------|--------------|-------|-------------------|
| | | | 77.8%; | Pred. No. 12.86-64; | | | |
| | Matches | 263; | Conservative | 1; | Mismatches | 74; | Indels 0; Gaps 0; |
| QY | 1 | CTTACCGTCACAGAGAGGACATAGGACAGAGAAATCCATCTATCTGTCTTGTCAATT | 60 | | | | |
| Db | 8342 | CTCAACCGTCACGAGAGGAGCATTAAGAACAGAGAAATCCATATATACAGCGCTTGTCTCT | 8401 | | | | |
| QY | 61 | GCCCTGAAGAGGCCCGGAAAGCCATTAAATGCGCTACAGAGAGCATTAACGCTGGCGCGCC | 120 | | | | |
| Db | 8402 | GCCCTGAAGAACCCAGAACTGTCAATACCTCGCTCACTGAGAGACTTACGTAGAGAGGCC | 8461 | | | | |
| QY | 121 | GATGAAAAACAGCAGGGCCAGGCTTCGCGATATAGCGTTGCCGCGAAGCGGGGTATT | 180 | | | | |
| Db | 8462 | CATACAAACAGCAAAGGGCAATCTCGCGGCTACAGCGTTGCCGCGAAGCGGGGTATT | 8521 | | | | |
| QY | 181 | CACCAACAAGCTTGGGGAAACACCATGACTTGTATCATCAAAAGCTAAAGCGCTTGTAAAGC | 240 | | | | |
| Db | 8522 | CACCAACAGCATGGGGAAATACATGATCATGTATCATCAAAAGCTTGTGACGCGTGTAAAGC | 8581 | | | | |
| QY | 241 | CGCTGGCATTTTAAGACCCGCGTGAATGCTGTGTGCGGTGACACCTAGTGTGCATCTTCAGA | 300 | | | | |
| Db | 8582 | TGCGGGGATCTGGAACCTCTTATATGTTGTGTGTGAGAACACACCTGTGTGCATCTTCAGA | 8641 | | | | |
| QY | 301 | AAGCAAGGGGGGTGAGAGAGACCAAGCGGAGACTTACGAG | 338 | | | | |
| Db | 8642 | GAGCCAAAGTACAGAGAGAGACCAAGCGGAGACTTACGAG | 8679 | | | | |

```

1      RESULT 7
2      US-08-441-971-15
3      Sequence 15 Application US/08441971
4      Patent No. 6071693
5      GENERAL INFORMATION:
6      APPLICANT: Tai-An Cha
7      TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
8      TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
9      NUMBER OF SEQUENCES: 147
10     CORRESPONDENCE ADDRESS:
11     ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
12     STREET: 600 Atlantic Avenue
13     CITY: Boston
14     STATE: Massachusetts
15     COUNTRY: USA
16     ZIP: 02210
17     COMPUTER READABLE FORM:
18     MEDIUM TYPE: Diskette, 5.25 inch
19     COMPUTER: IBM compatible
20     OPERATING SYSTEM: MS-DOS Version 3.3
21     SOFTWARE: Wordperfect 5.1
22     CURRENT APPLICATION DATA:
23     APPLICATION NUMBER: US/08/441,971
24     FILING DATE: 16-MAY-1995
25     CLASSIFICATION: 435
26     PRIOR APPLICATION DATA:
27     APPLICATION NUMBER: US/08/221,653
28     FILING DATE:
29     APPLICATION NUMBER: US/07/881,528
30     FILING DATE:
31     APPLICATION NUMBER: 07/697,326
32     FILING DATE: 8 May 1991
33     ATTORNEY/AGENT INFORMATION:
34     NAME: Janiuk, Anthony J.
35     REGISTRATION NUMBER: 29,809
36     REFERENCE/DOCKET NUMBER: C0772/7000
37     TELECOMMUNICATION INFORMATION:
38     TELEPHONE: (617) 720-3500
39     TELEFAX: (617) 720-2441
40     TELEX: EZEKIEL
41     INFORMATION FOR SEQ. ID NO.: 15:
42     SEQUENCE CHARACTERISTICS:
43     LENGTH: 340 nucleotides
44     TYPE: nucleic acid
45

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STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5110
 US-08-441-971-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
 Best Local Similarity 77.6%; Pred. No. 9.3e-65;
 Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAAATCCATCTATCTGTTGCAATT 60
 |||||
 DB 1 CTCTACAGTCACAGAGAGGACATCAAGAACCGAGAGTCATCTATCTGCTCACT 60
 |||||
 QY 61 GCCTGAGAGGCGCCGGAAGCCATTAAATCGTCGACAGAGACCTATAGCGCGGCC 120
 |||||
 DB 61 GCCTGAGAGGCGCCGGAATGCTATACACTCACTGAGAGACTGTAGCGTAGCGGGCC 120
 |||||
 QY 121 GATGAAAAACAGAGAGGCGCCAGGCTTGCGGATATAGCGCTGCGCAAGCGGGATT 180
 |||||
 DB 121 CATGACAAACAGAGAGGCGCCATCTCTGCGGTAAGGCGCTGCGCGAGAGTCT 180
 |||||
 QY 181 CACCAACAGCTTGAGAGGCGCCAGCACTGTTATCATCAAGCTTAAAGCGCTTTAAAGC 240
 |||||
 DB 181 CACCAACAGCATGAGAGGCGCCAGCACTGTTATCATCAAGCGCTTTAAAGCGC 240
 |||||
 QY 241 CGCTGCAATTTGATGAGCCCGGTGATGCTGTCGCGGTGAGAGACTTGTGTCTCA 300
 |||||
 DB 241 CGCGGCAATTTGTCCTCCACCACTGTTGTCGCGGAGAGACTGTTGTCTCA 300
 |||||
 QY 301 AAGCAAGGGGTGAGAGAGGACGAGCGGAGCTTACGAGTC 340
 |||||
 DB 301 GAGTCAGGGGTGAGAGAGGAGTACGAGCGGAGCTTACGAGTC 340
 |||||

RESULT 8

US-08-221-653-15
 ; Sequence 15, Application US/08221653
 ; Patent No. 6190864

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha
 TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 CITY: Boston
 STREET: 600 Atlantic Avenue

STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02210

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch
 COMPUTER: IBM compatible
 OPERATING SYSTEM: MS-DOS Version 3.3
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/221,653

FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/07/881,528

FILING DATE:
 APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Janiak, Anthony J.

REGISTRATION NUMBER: 29,809
 REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 720-3500
 TELEFAX: (617) 720-2441

TELEX: EZEKIEL
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 340 nucleotides
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: ns5110
 US-08-221-653-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
 Best Local Similarity 77.6%; Pred. No. 9.3e-65;
 Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCACAGAGAGGACATACGACAGAAATCCATCTATCTGTTGCAATT 60
 |||||
 DB 1 CTCTACAGTCACAGAGAGGACATCAAGAACCGAGAGTCATCTATCTGCTCACT 60
 |||||
 QY 61 GCCTGAGAGGCGCCGGAAGCCATTAAATCGTCGACAGAGACCTATAGCGCGGCC 120
 |||||
 DB 61 GCCTGAGAGGCGCCGGAATGCTATACACTCACTGAGAGACTGTAGCGTAGCGGGCC 120
 |||||
 QY 121 GATGAAAAACAGAGAGGCGCCAGGCTTGCGGATATAGCGCTGCGCAAGCGGGATT 180
 |||||
 DB 121 CATGACAAACAGAGAGGCGCCATCTCTGCGGTAAGGCGCTGCGCGAGAGTCT 180
 |||||
 QY 181 CACCAACAGCTTGAGAGGCGCCAGCACTGTTATCATCAAGCTTAAAGCGCTTTAAAGC 240
 |||||
 DB 181 CACCAACAGCATGAGAGGCGCCAGCACTGTTATCATCAAGCGCTTTAAAGCGC 240
 |||||
 QY 241 CGCTGCAATTTGATGAGCCCGGTGATGCTGTCGCGGTGAGAGACTTGTGTCTCA 300
 |||||
 DB 241 CGCGGCAATTTGTCCTCCACCACTGTTGTCGCGGAGAGACTGTTGTCTCA 300
 |||||
 QY 301 AAGCAAGGGGTGAGAGAGGACGAGCGGAGCTTACGAGTC 340
 |||||
 DB 301 GAGTCAGGGGTGAGAGAGGAGTACGAGCGGAGCTTACGAGTC 340
 |||||

RESULT 9

US-08-442-144A-15
 ; Sequence 15, Application US/08442144A
 ; Patent No. 6214583

GENERAL INFORMATION:
 APPLICANT: Tai-An Cha

APPLICANT: Bileen Beall
 APPLICANT: Bruce Irvine

APPLICANT: Janice Kolberg
 APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Chiron Corporation
 STREET: 4560 Horton Street

CITY: Emeryville
 STATE: California

COUNTRY: USA
 ZIP: 94608-2916

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch

COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows NT

SOFTWARE: Microsoft Word 97
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/442,144A

FILING DATE: MAY 16, 1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/221,653

FILING DATE: APRIL 1, 1994

ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yalko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHR-0121
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 9.3e-65;
Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCAAGAGAGGAGCATACGACAGAAAGATCCATCTATCTGTCTTGCATT 60
DB 1 CTCTACAGTCAAGAGAGGAGCATACGAAACGAGAGATCCATCTATCTGTCTTGCATT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACCTATAGTGGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACCTATAGTGGGCGGCC 120
QY 121 GATGAAAAAGCAAGAGGAGGCGGATGATAGCGCTTGGCGGCAAGCGGGGTATT 180
DB 121 CATGACAAACAGAAAGGAGGAGATCTGCGGGTACAGGCGTGGCGGCGAGGAGTGT 180
QY 181 CACCAAGCTTTGGGGAACACATGATCATCAAAAGCTAAAGCGCTTTGTAAGC 240
DB 181 CACCAAGCTTTGGGGAACACATGATCATCAAAAGCTAAAGCGCTTTGTAAGC 240
QY 241 CGGTGCAATTTGATGACCCGCGTATGCTCGTGGCGGTGACGACCTTGTGTATCTCA 300
DB 241 CGGTGCAATTTGATGACCCGCGTATGCTCGTGGCGGTGACGACCTTGTGTATCTCA 300
QY 301 AAGCAAGGGGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 301 AAGCAAGGGGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

RESULT 10

US-08-441-970-15
Sequence 15, Application US/08441970
Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 64.2%; Score 218.4; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 9.3e-65;
Matches 264; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

QY 1 CTCTACCGTCAAGAGAGGAGCATACGACAGAAAGATCCATCTATCTGTCTTGCATT 60
DB 1 CTCTACAGTCAAGAGAGGAGCATACGAAACGAGAGATCCATCTATCTGTCTTGCATT 60
QY 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACCTATAGTGGGCGGCC 120
DB 61 GCGTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGACCTATAGTGGGCGGCC 120
QY 121 GATGAAAAAGCAAGAGGAGGCGGATGATAGCGCTTGGCGGCAAGCGGGGTATT 180
DB 121 CATGACAAACAGAAAGGAGGAGATCTGCGGGTACAGGCGTGGCGGCGAGGAGTGT 180
QY 181 CACCAAGCTTTGGGGAACACATGATCATCAAAAGCTAAAGCGCTTTGTAAGC 240
DB 181 CACCAAGCTTTGGGGAACACATGATCATCAAAAGCTAAAGCGCTTTGTAAGC 240
QY 241 CGGTGCAATTTGATGACCCGCGTATGCTCGTGGCGGTGACGACCTTGTGTATCTCA 300
DB 241 CGGTGCAATTTGATGACCCGCGTATGCTCGTGGCGGTGACGACCTTGTGTATCTCA 300
QY 301 AAGCAAGGGGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340
DB 301 AAGCAAGGGGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 340

RESULT 11

US-08-441-971-16
Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3

```

SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

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Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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QY      1 CTCTACCGTCACAGAGGAGCATACGACAGAAAGATCATCTGCTTGTCAATT 60
DB      1 CTCTACGTCACGAGAGGAGCATACGAAACGAGAGTCATCTGCTTGTCACT 60
QY      61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGGCGGC 120
DB      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
QY      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
DB      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
QY      121 CATGCAAAACAGCAAGGCGCAATCTCTGCGGTACAGGCGGTTCGCGCGAGGAGTGCT 180
DB      121 CATGCAAAACAGCAAGGCGCAATCTCTGCGGTACAGGCGGTTCGCGCGAGGAGTGCT 180
QY      181 CACCAAGGCTTGGGGAACACCATGACTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
DB      181 CACCAAGGCTTGGGGAACACCATGACTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
QY      241 CGCTGGCATTTGTAGACCCCGGTGATGCTGCTGTGCGGTGACGACTAGTGTATCTCADA 300
DB      241 CGCTGGCATTTGTAGACCCCGGTGATGCTGCTGTGCGGTGACGACTAGTGTATCTCADA 300
QY      301 AAGCAAGGGGCTGAGAGGAGCAACGAGGAGCACTAGTGTATCTCAGA 338
DB      301 AAGCAAGGGGCTGAGAGGAGCAACGAGGAGCACTAGTGTATCTCAGA 338
QY      301 GAGTCAAGGGGCTGAGAGGAGTACGAGAACTCTAGAG 338
DB      301 GAGTCAAGGGGCTGAGAGGAGTACGAGAACTCTAGAG 338

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RESULT 12
US-08-221-653-16
; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; ADDRESS/ADDRESS: ADDRESS:
; STREET: 600 Atlantic Avenue
; CITY: Boston

```

```

STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-221-653-16

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Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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QY      1 CTCTACCGTCACAGAGGAGCATACGACAGAAAGATCATCTGCTTGTCAATT 60
DB      1 CTCTACGTCACGAGAGGAGCATACGAAACGAGAGTCATCTGCTTGTCACT 60
QY      61 GCTTGAAGAGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGGCGGC 120
DB      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
QY      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
DB      61 GCTTGAAGAGGCTCGAAATGCTCATACCTGACCTGAGAGGCTGTACGTAGGGGGGCGC 120
QY      121 CATGCAAAACAGCAAGGCGCAATCTCTGCGGTACAGGCGGTTCGCGCGAGGAGTGCT 180
DB      121 CATGCAAAACAGCAAGGCGCAATCTCTGCGGTACAGGCGGTTCGCGCGAGGAGTGCT 180
QY      181 CACCAAGGCTTGGGGAACACCATGACTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
DB      181 CACCAAGGCTTGGGGAACACCATGACTGTATACATCAAGCTAAAGCGGCTTGTAAAGC 240
QY      241 CGCTGGCATTTGTAGACCCCGGTGATGCTGCTGTGCGGTGACGACTAGTGTATCTCAGA 300
DB      241 CGCTGGCATTTGTAGACCCCGGTGATGCTGCTGTGCGGTGACGACTAGTGTATCTCAGA 300
QY      301 AAGCAAGGGGCTGAGAGGAGCAACGAGGAGCACTAGTGTATCTCAGA 338
DB      301 AAGCAAGGGGCTGAGAGGAGCAACGAGGAGCACTAGTGTATCTCAGA 338
QY      301 GAGTCAAGGGGCTGAGAGGAGTACGAGAACTCTAGAG 338
DB      301 GAGTCAAGGGGCTGAGAGGAGTACGAGAACTCTAGAG 338

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RESULT 13
US-08-442-144A-16
; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine

```

```

; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdes
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESS: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yalco Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-442-144A-16

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Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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QY      1 CTCTACCGTCACAGAGAGGAGACATACGACAGAAAGATCCTATCTGTCTTGCATT 60
        |||||
DB      1 CTCTACAGTCACGAGAGGAGACATCAGACCGAGAGTCATCTATCTGTCTTGCATT 60
QY      61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACATATAGTGGGGGCC 120
        |||||
DB      61 GCGTGAAGAGGCTCGAAATGCTCATACACTGACTGAGAGGCTGTAGTGGGGGCC 120
QY      121 GATGAAAAACAGCAAGGAGCCAGGCTTGCGGATATAGCGCTTGCCGCGCAAGCGGGTATT 180
        |||||
DB      121 CATGACAAACAGCAAGGAGCCATCTCGCGGTAAGGCTAAAGCGGATGTCT 180
QY      181 CACCAACAGCTTGGGGAAACCATGACTTGTATCATCAAGCTAAAGCGGCTTTGTAAGC 240
        |||||
DB      181 CACCAACAGCTTGGGGTAACACTGCTGCTAGCTAAGCTAAAGCGGATGTCT 240
QY      241 CGCTGGCATTTGAGACCCGGTGATGCTGTGTGCGGTGACAGACTAGTGTCTATCTCAGA 300
        |||||
DB      241 CGCGGGCATTTGTGCCCCCACCACATGTGTGTGCGGCGAGCACTAGTGTCTATCTCAGA 300
QY      301 AAGCAAGGGGTGAGAGAGACACAGCGGAGCCTTAGAG 338
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DB      301 GAGTCAAGGGGTGAGAGAGATGAGCAAACTTAGAG 338

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RESULT 14

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US-08-441-970-16
; Sequence 16, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESS: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-441-970-16

```

```

Query Match      64.1%; Score 218; DB 3; Length 340;
Best Local Similarity 77.8%; Pred. No. 1.3e-64;
Matches 263; Conservative 0; Mismatches 75; Indels 0; Gaps 0;

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```

QY      1 CTCTACCGTCACAGAGAGGAGACATACGACAGAAAGATCCTATCTGTCTTGCATT 60
        |||||
DB      1 CTCTACAGTCACGAGAGGAGACATCAGACCGAGAGTCATCTATCTGTCTTGCATT 60
QY      61 GCGTGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACATATAGTGGGGGCC 120
        |||||
DB      61 GCGTGAAGAGGCTCGAAATGCTCATACACTGACTGAGAGGCTGTAGTGGGGGCC 120
QY      121 GATGAAAAACAGCAAGGAGCCAGGCTTGCGGATATAGCGCTTGCCGCGCAAGCGGGTATT 180
        |||||
DB      121 CATGACAAACAGCAAGGAGCCATCTCGCGGTAAGGCTAAAGCGGATGTCT 180
QY      181 CACCAACAGCTTGGGGAAACCATGACTTGTATCATCAAGCTAAAGCGGCTTTGTAAGC 240
        |||||
DB      181 CACCAACAGCTTGGGGTAACACTGCTGCTAGCTAAGCTAAAGCGGATGTCT 240
QY      241 CGCTGGCATTTGAGACCCGGTGATGCTGTGTGCGGTGACAGACTAGTGTCTATCTCAGA 300
        |||||
DB      241 CGCGGGCATTTGTGCCCCCACCACATGTGTGTGCGGCGAGCACTAGTGTCTATCTCAGA 300
QY      301 AAGCAAGGGGTGAGAGAGACACAGCGGAGCCTTAGAG 338
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Db 301 GAGTCAGGGGTGAGAGAGATGAGCAAACTGAGAG 338

RESULT 15

US-08-836-075A-71
; Sequence 71, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-71

Query Match 62.8%; Score 213.6; DB 3; Length 340;
Best Local Similarity 76.8%; Pred No. 4,1e-63;
Matches 261; Conservative 0; Mismatches 79; Indels 0; Gaps 0;

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DB 1 CTCACCGTCACAGAGAGGATATAAGAACTGAGAGTCCATATACCTGGCTGCTCTT 60
QY 61 GGCTGAAGAGGCGCCGGAAGCCATTAAATCGCTGACAGAGAGACTATACGTGGCGGCC 120
DB 61 ACCCGAGAGGCGCCGAGCTGCATCTTCAATTAATGAGACTTTACGTGGAGGGCC 120
QY 121 GATGAAAAACAGAGAGGCGCAGGCTTGCGGATATAGCGCTTCCGCGCAAGCGGGTATT 180
DB 121 CATGATGAACAGCAAGAGGCACTCTCTCGGATACAGGCGCTTCCGCGCTAGCGAGTCT 180
QY 181 CACCAACAGCTTGGGGAGACACCATGACTTGTATACATCAAAAGCTAAAGCGGCTTGTAAAGC 240
DB 181 CACCAACAGTATGGGGAACACCATCACTGTATGTGAAAGCCCTCGCAGCTTGTAAAGC 240

QY 241 CGCTGCAATTGTAGACCCGGTGAATGCTGTGCGGTGACGACCTAGTGTATCTCAGA 300
DB 241 TCGGGCATTTGTGTGCCCCCAGATCTGTGTGCGGCGATACCTGGTTGTATCTCAGA 300
QY 301 AAGCAAGGGGGTGAAGAGACCAAGCGGACCTAGAGTCT 340
DB 301 GAGTCAGGGGGGTGAGAGAGACGAGCAAACTGAGAGTCT 340

Search completed: January 11, 2006, 14:46:44
Job time: 101.519 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 99.0405 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-101
Perfect score: 335
Sequence: 1 ctccactgctactgagagag.....ggagaccagcgagacctac 335

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
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6: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfilltest.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 333.4 | 99.5 | 335 | 3 | US-08-836-075A-101 |
| 2 | 309 | 92.2 | 340 | 3 | US-08-836-075A-105 |
| 3 | 304.6 | 90.9 | 340 | 3 | US-08-836-075A-99 |
| 4 | 224.6 | 67.0 | 340 | 3 | US-09-878-281A-215 |
| 5 | 223 | 66.6 | 340 | 3 | US-08-836-075A-71 |
| 6 | 221 | 66.0 | 9511 | 2 | US-07-925-695-6 |
| 7 | 221 | 66.0 | 9511 | 2 | US-07-925-695-7 |
| 8 | 216.6 | 64.7 | 340 | 3 | US-09-878-281A-145 |
| 9 | 214.6 | 64.1 | 340 | 3 | US-08-441-971-16 |
| 10 | 214.6 | 64.1 | 340 | 3 | US-08-221-653-16 |
| 11 | 214.6 | 64.1 | 340 | 3 | US-08-442-144A-16 |
| 12 | 214.6 | 64.1 | 340 | 3 | US-08-441-970-16 |
| 13 | 214.6 | 64.1 | 2693 | 2 | US-07-925-695-4 |
| 14 | 214.6 | 64.1 | 9589 | 2 | US-07-925-695-1 |
| 15 | 214.6 | 64.1 | 9589 | 2 | US-07-925-695-2 |
| 16 | 214 | 63.9 | 340 | 3 | US-08-836-075A-69 |
| 17 | 211.8 | 63.2 | 340 | 3 | US-08-441-971-17 |
| 18 | 211.8 | 63.2 | 340 | 3 | US-08-221-653-17 |
| 19 | 211.8 | 63.2 | 340 | 3 | US-08-442-144A-17 |
| 20 | 211.8 | 63.2 | 340 | 3 | US-08-441-970-17 |
| 21 | 209.8 | 62.6 | 340 | 3 | US-08-836-075A-79 |
| 22 | 208.2 | 62.1 | 340 | 3 | US-08-441-971-15 |
| 23 | 208.2 | 62.1 | 340 | 3 | US-08-221-653-15 |
| 24 | 208.2 | 62.1 | 340 | 3 | US-08-442-144A-15 |

| | | | | | | |
|----|-------|------|-----|---|--------------------|-------------------|
| 25 | 208.2 | 62.1 | 340 | 3 | US-08-441-970-15 | Sequence 15, Appl |
| 26 | 205 | 61.2 | 340 | 3 | US-08-441-971-13 | Sequence 13, Appl |
| 27 | 205 | 61.2 | 340 | 3 | US-08-221-653-13 | Sequence 13, Appl |
| 28 | 205 | 61.2 | 340 | 3 | US-08-442-144A-13 | Sequence 13, Appl |
| 29 | 205 | 61.2 | 340 | 3 | US-08-441-970-13 | Sequence 13, Appl |
| 30 | 199.2 | 59.5 | 340 | 3 | US-08-836-075A-77 | Sequence 77, Appl |
| 31 | 197 | 58.8 | 340 | 3 | US-08-441-971-14 | Sequence 14, Appl |
| 32 | 197 | 58.8 | 340 | 3 | US-08-221-653-14 | Sequence 14, Appl |
| 33 | 197 | 58.8 | 340 | 3 | US-08-442-144A-14 | Sequence 14, Appl |
| 34 | 197 | 58.8 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 35 | 195.4 | 58.3 | 340 | 3 | US-08-836-075A-73 | Sequence 73, Appl |
| 36 | 176.2 | 52.6 | 340 | 3 | US-09-878-281A-116 | Sequence 116, App |
| 37 | 174.6 | 52.1 | 340 | 3 | US-09-878-281A-201 | Sequence 201, App |
| 38 | 171.8 | 51.3 | 340 | 3 | US-08-836-075A-85 | Sequence 85, Appl |
| 39 | 171.4 | 51.2 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 40 | 170.6 | 50.9 | 340 | 3 | US-08-836-075A-83 | Sequence 83, Appl |
| 41 | 168.6 | 50.3 | 340 | 3 | US-09-878-281A-106 | Sequence 106, App |
| 42 | 167.4 | 50.0 | 340 | 3 | US-08-836-075A-87 | Sequence 87, Appl |
| 43 | 165.4 | 49.4 | 340 | 3 | US-09-878-281A-112 | Sequence 112, App |
| 44 | 165 | 49.3 | 340 | 3 | US-09-878-281A-203 | Sequence 203, App |
| 45 | 164.2 | 49.0 | 340 | 3 | US-08-441-971-5 | Sequence 5, Appl |

ALIGNMENTS

RESULT 1
US-08-836-075A-101
Sequence 101, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-101

Query Match 99.5%; Score 333.4; DB 3; Length 335;

Best Local Similarity 100.0%; Pred. No. 5.1e-91;

Matches 335; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTCACCTGCTACCTGAGAGACATACGACAGAGAAATTCATCTATCTATCTGCTTCATTT 60
DB 1 CTCACCTGCTACCTGAGAGACATACGACAGAGAAATTCATCTATCTATCTGCTTCATTT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTCGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTCGCGGCC 120
QY 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCGCGCAAGCGGGTATT 180
DB 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCGCGCAAGCGGGTATT 180
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCARAGACTTGTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCARAGACTTGTAAAGC 240
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGTCGCGGACGACCTAGTGTCTATCAGA 300
DB 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGTCGCGGACGACCTAGTGTCTATCAGA 300
QY 301 GAGCAAGGGGGGTAGAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335
DB 301 GAGCAAGGGGGGTAGAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335

RESULT 2

US-08-836-075A-105

Sequence 105, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 105:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-105

Query Match 99.2%; Score 309; DB 3; Length 340;

Best Local Similarity 94.0%; Pred. No. 1.2e-83;

Matches 315; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

QY 1 CTCACCTGCTACCTGAGAGACATACGACAGAGAAATTCATCTATCTATCTGCTTCATTT 60
DB 1 CTCACCTGCTACCTGAGAGACATACGACAGAGAAATTCATCTATCTATCTGCTTCATTT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTCGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTCGCGGCC 120
QY 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCGCGCAAGCGGGTATT 180
DB 121 GATGAAAAACGCAAAAGCCGAGCTGCGGATATAGCGCTGCGCGCAAGCGGGTATT 180
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCARAGACTTGTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCARAGACTTGTAAAGC 240
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGTCGCGGACGACCTAGTGTCTATCAGA 300
DB 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGTCGCGGACGACCTAGTGTCTATCAGA 300
QY 301 GAGCAAGGGGGGTAGAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335
DB 301 GAGCAAGGGGGGTAGAGAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 335

RESULT 3

US-08-836-075A-99

Sequence 99, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 99:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-99

Query Match 90.9%; Score 304.6; DB 3; Length 340;
Best Local Similarity 93.4%; Pred. No. 2.6e-82;
Matches 313; Conservative 4; Mismatches 18; Indels 0; Gaps 0;

QY 1 CTCACCTGTCTACGTAGAGAGACATACGACAGAAAGATCCATCTAATCTTGGCTTGTCAATT 60
DB 1 CTCACCTGTCTACGTAGAGAGACATACGACAGAAAGATCCATCTAATCTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCGCTGACAGAGACTATACGTGGCGGCC 120
QY 121 GATGAAAAACGCAAAAGGCCGCTGGGATATAGGCTTCCGCGCAAGCGGGGTATT 180
DB 121 GATGAAAAACGCAAAAGGCCGCTGGGATATAGGCTTCCGCGCAAGCGGGGTATT 180
QY 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
DB 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
QY 241 YGCTGCATTGTTGACCCGGTGATGCTGTGTCGCGCAGCACTAGTGTCTCATCTCAGA 300
DB 241 CGCTGGCATTGTAGACCCGGTGATGCTGTGTCGCGGTAGACCACTAGTGTCTCAGA 300
QY 301 GAGCAAGGGGGTGAAGAGAGACCGAGCAAGCACTTAC 335
DB 301 AAGCAAGGGGGTGAAGAGAGACCGAGCAAGCACTTAC 335

RESULT 4

US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878, 281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 215
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 67.0%; Score 224.6; DB 3; Length 340;
Best Local Similarity 79.0%; Pred. No. 3.9e-58;
Matches 263; Conservative 3; Mismatches 67; Indels 0; Gaps 0;

QY 1 CTCACCTGTCTACGTAGAGAGACATACGACAGAAAGATCCATCTAATCTTGGCTTGTCAATT 60
DB 1 CTCACCTGTCTACGTAGAGAGACATACGACAGAAAGATCCATCTAATCTTGGCTTGTCAATT 60
QY 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGACTATACGTGGCGGCC 120

DB 61 GCCCGAAGAGGCCCGGAAAGCCATTATACCTGCTCACAGAGACTTACGTGGAGGCC 120
QY 121 GATGAAAAACGCAAAAGGCCGCTGGGATATAGGCTTGGCGCAAGCGGGGTATT 180
DB 121 GATGAAAAACGCAAAAGGCCGCTGGGATATAGGCTTGGCGCAAGCGGGGTATT 180
QY 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
DB 181 CACCACAAGCTTGGGGAACACCATGACTTGTATCATCAAGGCCAARCGAGCTGTAAAGC 240
QY 241 YGCTGCATTGTTGACCCGGTGATGCTGTGTCGCGCAGCACTAGTGTCTCATCTCAGA 300
DB 241 CGCTGGCATTGTAGACCCGGTGATGCTGTGTCGCGGTAGACCACTAGTGTCTCAGA 300
QY 301 GAGCAAGGGGGTGAAGAGAGACCGAGCAAGCACTTAC 333
DB 301 GAGCAAGGGGGTGAAGAGAGACCGAGCAAGCACTTAC 333

RESULT 5

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 66.6%; Score 223; DB 3; Length 340;
Best Local Similarity 78.7%; Pred. No. 1.2e-57;
Matches 262; Conservative 3; Mismatches 68; Indels 0; Gaps 0;

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Oy 1 CTCGACTGTCACTGAGAGACATACGAGCAGAAAGATCCATCTAYTGGCTGTCAATT 60
Db 1 CTCACCGCTCACAGAGAGAGATATAAGACATGAGAGTCCATATACCTGGCTGTCTCTT 60
Oy 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGAGACTAATAGTGGCGGCC 120
Db 61 ACCCGAGAGAGCCCGGAGTGCATATCAATTCAATTAAGAGACTTTACGTGGAGGGCC 120
Oy 121 GATGAAAACAGCAAGAGCCAGGCTGGGATATATAGGGCTGGCCGCGAAGCGGGCTATT 180
Db 121 CATATGACAGCAAGAGGAGGAGTCTCTGCGATACAGGGGTTGCCGCTAGCGAGTCT 180
Oy 181 CACCAACAGCTTGGGGAACACCATGACTTTATCATCAAGGCCAARGCAGCTTTAAAGC 240
Db 181 CACCAACAGTATGGGGAACACCATGACTTTATGTAAGGCCCTCGCAGCTTTAAAGC 240
Oy 241 YGCTGGCATTTGTTGACCCGGTGATGCTGTGTGGCGACGACCTAGTGTGATCTCAGA 300
Db 241 TGGCGGCAATTTGTTGCCCCCAGATGCTGTGTGGCGGATGACTGTGTGATCTCAGA 300
Oy 301 GAGCAAGGGGGTAGAGAGACGACGAGACCT 333
Db 301 GAGTCAAGGGGCTGAGAGAGACGAGCAAACT 333
```

```
RESULT 6
US-07-925-695-6
; Sequence 6, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9511 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-07-925-695-6
```

Query Match 66.0%; Score 221; DB 2; Length 9511;
Best Local Similarity 64.6%; Pred. No. 1,6e-56;
Matches 215; Conservative 49; Mismatches 69; Indels 0; Gaps 0;

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Oy 1 CTCGACTGTCACTGAGAGACATACGAGCAGAAAGATCCATCTAYTGGCTGTCAATT 60
Db 8342 CUCAACCGUCACGAGAGAGGACAUAGACAGAAAGAUCCAUUUAUACAGCCTGUCUCU 8401
Oy 61 GCCCGAAGAGGCCCGGAAAGCCATTAAATCACTGACAGAGAGACTAATAGTGGCGGCC 120
Db 8402 GCCUCAAGAGCCCAAGACUCUGCAUACACUCUCAAGAGAGACUUAUAGAGAGGCC 8461
Oy 121 GATGAAAACAGCAAGAGCCAGGCTGGGATATATAGGGCTGGCCGCGAAGCGGGCTATT 180
Db 8462 CAUACAAACAGCAAGAGGCAUUCUCGCGUACAGGCGUGUGCCGCAAGCGGKUUUU 8521
Oy 181 CACCAACAGCTTGGGGAACACCATGACTTTATCATCAAGGCCAARGCAGCTTTAAAGC 240
Db 8522 CACCAACAGCAUUGGGGAUUAACAUAGACAUUUAUCAAAGCCCUUUCAGCGUGUAAGGC 8581
Oy 241 YGCTGGCATTTGTAACCCGGTGATGCTGTGTGGCGGAGACCTAGTGTGATCTCAGA 300
Db 8582 UGCRGGAUGCGUAGACCCUGUUAUGUGUGUGAGACGACCTUGUGUUAUAGCA 8641
Oy 301 GAGCAAGGGGGTAGAGAGACGACGAGACCT 333
Db 8642 GAGCCAAAGUACAGAGAGACGAGCAAACT 8674
```

```
RESULT 7
US-07-925-695-7
; Sequence 7, Application US/07925695
; Patent No. 5428145
; GENERAL INFORMATION:
; APPLICANT: OKAMOTO, Hiroaki
; APPLICANT: NAKAMURA, Tetsuo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
; STREET: 1850 M Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: US
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/925,695
; FILING DATE: 19920807
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 287402/91
; FILING DATE: 09-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 360441/91
; FILING DATE: 05-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wellacher, Robert G.
; REGISTRATION NUMBER: 20,531
; REFERENCE/DOCKET NUMBER: 06/87-48009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2811
; TELEFAX: (202) 659-1462
; TELEFAX: WUI 64470
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
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LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

Query Match 66.0%; Score 221; DB 2; Length 9511;
Best Local Similarity 78.1%; Pred. No. 1.6e-56;
Matches 260; Conservative 4; Mismatches 69; Indels 0; Gaps 0;

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Qy 1 CTCACCTGCTACGTAGAGACATACGACAGAAATCCATCTAATTTGGCTTGTCAATT 60
Db 8342 CTCACCTGCTACGTAGAGACATACGACAGAAATCCATCTAATTTGGCTTGTCT 8401
Qy 61 GCCCGAAGAGGCGCGGAGGCGCATTAATCACTGACAGAGACTATGCGGGCGGCC 120
Db 8402 GCTTCAGAGAGCGAGACTGTCATACCTGCTCACTGAGAGACTTTCATGAGAGGGCC 8461
Qy 121 GATGAAAAACAGCAAGGCGCGCTGCGATATATAGCGTTGCCGCGAGCGGGTATT 180
Db 8462 CATGCAAAACAGCAAGGCGCATCTGCGGCTACAGCGCTTGCGCGCAAGCGGGTATT 8521
Qy 181 CACCAACAGCTTTGGGGAACACCATGACTTTTATCATCAAGGCCAARGACGCTTTAAAGC 240
Db 8522 CACCAACAGCTTTGGGGAATACCATGACTTTTATCATCAAGGCCGCTTTAAAGC 8581
Qy 241 YGCTGGCATTTGTCACCGGTGATGCTGCTGGGCGAGACCTAGTGTCTCTCACTA 300
Db 8582 TGCRCGATCTGACCGCTTGTATGTTGTGTGAGACACACCTGTCATCTCAGA 8641
Qy 301 GAGCAAGGGGGTATAGAGAGACCAAGCGAGACT 333
Db 8642 GAGCAAGGTAAACGAGAGAGACGAGCAAACT 8674
```

RESULT 8

US-09-878-281A-145
Sequence 145, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: PatentIn version 3.1
SEQ ID NO 145
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-145

Query Match 64.7%; Score 216.6; DB 3; Length 340;
Best Local Similarity 77.0%; Pred. No. 1e-55;
Matches 258; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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Qy 1 CTCACCTGCTACGTAGAGACATACGACAGAAATCCATCTAATTTGGCTTGTCAATT 60
Db 1 CTCACCTGCTACGTAGAGACATACGACAGAAATCCATCTAATTTGGCTTGTCTTT 60
Qy 61 GCCCGAAGAGGCGCGGAGGCGCATTAATCACTGACAGAGACTATGCGGGCGGCC 120
Db 61 ACCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
Qy 121 GATGAAAAACAGCAAGGCGCGCTGCGATATATAGCGTTGCCGCGAGCGGGTATT 180
Db 121 CATGCTAAACAGCAAGGCGCAACTGCGGATACAGACGCTGCGCGCAAGCGGGTATT 180
Qy 181 CACCAACAGCTTTGGGGAACACCATGACTTTTATCATCAAGGCCAARGACGCTTTAAAGC 240
Db 181 CACCACTAGCATGGAAATATCATCACTGCTTACGTGAAGGACACAAAGCGCTTTAAAGC 240
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Qy 241 YGCTGCATTTGTCACCGGTGATGCTGCTGGGCGAGACACTAGTGTCTCAGA 300
Db 241 TGCRCGATCTGACCGCTTGTATGTTGTGTGAGACACACCTGTCATCTCAGA 300
Qy 301 GAGCAAGGGGGTATAGAGAGACCAAGCGAGACTTAC 335
Db 301 GAGTCAGGGAGCGAGAGAGACGAGCGAAACTTAC 335
```

RESULT 9

US-08-441-971-16
Sequence 16, Application US/08441971
Patent No. 6071693
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5a96
US-08-441-971-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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Qy 1 CTCACCTGCTACGTAGAGACATACGACAGAAATCCATCTAATTTGGCTTGTCAATT 60
Db 1 CTCACCTGCTACGTAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 60
Qy 61 GCCCGAAGAGGCGCGGAGGCGCATTAATCACTGACAGAGACTATGCGGGCGGCC 120
Db 61 GCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
```

Qy 121 GATGAAAAACAGCAAGGCCAGCCTGCGATATATAGCGTTGCCGCGCAAGCGGGTATT 180
Db 121 CATGCAAAACAGCAAGGGCATCTCTGGGGGTACAGGGGTTGGCGCGGAGGGAGTGCT 180
Qy 181 CACCAAGCTTTGGGGAACCATGACTTTTATCATCAAGCGCAAGCCTTTAAAGC 240
Db 181 CACCAAGCAGTGGGTAAACATCAGTCTACGTGAAGGCTAAAGGGGATGTAAGCG 240
Qy 241 YGCTGGCATTTGTTGACCCGGTATGCTGTGCGGCGACGACTAGTGTCTATCTAGA 300
Db 241 CGCGGGCATTTGTTGCCCCCACCATTGTGTGTGCGGCGACGACTAGTGTCTAGA 300
Qy 301 GAGCAAGGGGTAGAGAGACCGAGACCT 333
Db 301 GAGTCAAGGGGTGAGAGAGATGACGAAACCT 333

RESULT 10
US-08-221-653-16
; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janluk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-221-653-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

Qy 1 CTCACCTGCTACGTAGAGACATACGAGACAGAAATCCATCTATYVYGGCTTGCAATT 60
Db 1 CTTTACAGTCAACGAGAGGACATCAGAACCGAGAGATCCATCTATCTGCTCTGTTCACT 60

Qy 61 GCCGGAAGAGCCCGGAAGCCATTAAATCATGACAGAGAGACTATACCTGGCGGCC 120
Db 61 GCTTGAAGAGGCTGAACTGCACTACATCACTGACGACGAGAGGCTGTACTAGGGGGCC 120
Qy 121 GATGAAAAACAGCAAGGCCAGCCTGCGATATATAGCGTTGCCGCGCAAGCGGGTATT 180
Db 121 CATGCAAAACAGCAAGGGCATCTCTGGGGGTACAGGGGTTGGCGCGGAGGGAGTGCT 180
Qy 181 CACCAAGCTTTGGGGAACCATGACTTTTATCATCAAGCGCAAGCCTTTAAAGC 240
Db 181 CACCAAGCAGTGGGTAAACATCAGTCTACGTGAAGGCTAAAGGGGATGTAAGCG 240
Qy 241 YGCTGGCATTTGTTGACCCGGTATGCTGTGCGGCGACGACTAGTGTCTATCTAGA 300
Db 241 CGCGGGCATTTGTTGCCCCCACCATTGTGTGTGCGGCGACGACTAGTGTCTAGA 300
Qy 301 GAGCAAGGGGTAGAGAGACCGAGACCT 333
Db 301 GAGTCAAGGGGTGAGAGAGATGACGAAACCT 333

RESULT 11
US-08-442-144A-16
; Sequence 16, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 340 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: ns5arg6
; US-08-442-144A-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

```
QY 1 CTCACCTCTCTGAGAGACATACGACGAGAAATCCATCTATYTTGGCTTGCATT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 CTTACACTTCACGAGAGACATACGACGAGATCCATCTATCTGCTCTTCCACT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GCCGGAAGAGGCCCGGAAGGCCATTAATCACTGACAGAGACTATCGTGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 61 GCTTGAGAGAGGCTCAACTGCTCACTCACTGACTGAGAGGCTGTACGTAGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 GATGAAAAACAGCAAGGCCAGGCTGCGATATATAGCGTTGCCGCAAGCGGGTATT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 121 CATGCAAAACAGCAAGGGCAATCCTGCGGGTACAGGCGTTGCCGCGAGCGGAGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCACAAGCTTTGGGAAACACCATGACTTTGTTACATCAAGGCCAARGCAGCTTTAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 CACCACAGCATGGGTAAACACACTCACTGCTACGTAAGCTAAAGCGCATGTAAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 YGCTGGCATTTGTGACCCGGTATGCTGTGTGGGGCGAGCACTAGTGTCTCTGAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 241 CGCGGCAATTTGTGCCCCCACCACATTTGTGTGTGGCGAGCACTAGTGTCTCTGAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCAAGGGGGTAAAGAGAGACCAAGCGAGACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 301 GAGTCAAGGGGTGAGAGAGATGAGCGAAACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 12
US-08-441-970-16
Sequence 16, Application US/08441970
Patent No. 6297370

GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 64.1%; Score 214.6; DB 3; Length 340;
Best Local Similarity 76.9%; Pred. No. 4.1e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

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QY 1 CTCACCTCTCTGAGAGACATACGAGCAAGAAATCCATCTATYTTGGCTTGCATT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 CTTACAGTCAAGAGAGGAGACATACGAGCAAGAAATCCATCTATCTGCTTCCACT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 61 GCCGGAAGAGGCCCGGAAGGCCATTAATCACTGACAGAGACTATACCTGAGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 61 GCTTGAGAGAGGCTGCAACTGCTCACTCACTGACTGAGAGGCTGTACGTAGGGGGGCC 120
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 121 GATGAAAAACAGCAAGGCCAGGCTGCGATATATAGCGTTGCCGCAAGCGGGTATT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 121 CATGCAAAACAGCAAGGGCAATCCTGCGGGTACAGGCGTTGCCGCGAGCGGAGTCT 180
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 181 CACCACAAGCTTTGGGAAACACCATGACTTTGTTACATCAAGGCCAARGCAGCTTTAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 CACCACAGCATGGGTAAACACACTCACTGCTACGTAAGCTAAAGCGCATGTAAAGC 240
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 241 YGCTGGCATTTGTGACCCGGTATGCTGTGTGGGGCGAGCACTAGTGTCTCTGAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 241 CGCGGCAATTTGTGCCCCCACCACATTTGTGTGTGGCGAGCACTAGTGTCTCTGAGA 300
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 301 GAGCAAGGGGGTAAAGAGAGACCAAGCGAGACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 301 GAGTCAAGGGGTGAGAGAGATGAGCGAAACT 333
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

RESULT 13
US-07-925-695-4
Sequence 4, Application US/07925695
Patent No. 5428145

GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2693 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-4

Query Match 64.1%; Score 214.6; DB 2; Length 2693;
Best Local Similarity 76.9%; Pred. No. 8.6e-55;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

```
QY 1 CTCACCTGTCATGAGAGACATACGAGACAGAAATCCATCTAATGCTGTCATT 60
DB 2334 CTCACCTGTCATGAGAGACATACGAGACAGAAATCCATCTAATGCTGTCATT 2393
QY 61 GCCGGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGACTATACTGCGCGGCC 120
DB 2394 GCCGGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGACTATACTGCGCGGCC 2453
QY 121 GATGAAAAACAGAAAGCCAGGCGCTGCGATATAGCGCTTGCCGCGCAAGCGGGTATT 180
DB 2454 CATGTTCAACAGCAAGGCGCCAGACCTGCGGGTACAGGCGTTGCCGCGCAGCGGGTCT 2513
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAARGAGCTTGTAAAGC 240
DB 2514 TACCACTGACAGGGAACACCATGACTTGTATCAATCAAGGCTTGTAAAGC 2573
QY 241 YGCTGGCATTTGTTGACCCCGTGATGCTGCTGCGCGACGACCTTAGTGTATCTAGA 300
DB 2574 TGCGAGGATTAATGCGCCCAACAATGCTGTATGCGCGCATGCTTGTGTCATCTCAGA 2633
QY 301 GAGCAAGGGGGTAGAGAGAGACGACGAGACTT 333
DB 2634 GAGCCAGGGGACCGAGAGAGACGAGCGGAACT 2666
```

RESULT 14

US-07-925-695-1
Sequence 1, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:

NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-1

Query Match 64.1%; Score 214.6; DB 2; Length 9589;
Best Local Similarity 63.4%; Pred. No. 1.4e-54;
Matches 211; Conservative 49; Mismatches 73; Indels 0; Gaps 0;

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QY 1 CTCACCTGTCATGAGAGACATACGAGACAGAAATCCATCTAATGCTGTCATT 60
DB 8341 CTCACCTGTCATGAGAGACATACGAGACAGAAATCCATCTAATGCTGTCATT 8400
QY 61 GCCGGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGACTATACTGCGCGGCC 120
DB 8401 GCCGGAAGAGGCCCGGAGAGCCATTAAATCACTGACAGAGACTATACTGCGCGGCC 8460
QY 121 GATGAAAAACAGAAAGCCAGGCGCTGCGATATAGCGCTTGCCGCGCAAGCGGGTATT 180
DB 8461 CAUGUUAACAGCAAGGCGCCAGACCTGCGGUUAAGCGGCGCCGCGGAGGUGCU 8520
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAARGAGCTTGTAAAGC 240
DB 8521 UACCACTGACAGGGAACACCATGACTTGTATCAATCAAGGCTTGTAAAGC 8580
QY 241 YGCTGGCATTTGTTGACCCCGTGATGCTGCTGCGCGACGACCTTAGTGTATCTAGA 300
DB 8581 UGCAGGAGUUAUUGCGCCCAACAUGCUGGUUAUGCGGCAUGACUUGUUAUCUACGA 8640
QY 301 GAGCAAGGGGGTAGAGAGAGACGACGAGACTT 333
DB 8641 GAGCCAGGGGACCGAGAGAGACGAGCGGAACT 8673
```

RESULT 15

US-07-925-695-2
Sequence 2, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91

FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 64.1%; Score 214.6; DB 2; Length 9589;
Best Local Similarity 76.9%; Pred. No. 1.4e-54;
Matches 256; Conservative 4; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTCACCTGCTAGAGAGACATACGAGAGAGAAATCACTAATGCTTGTCAATT 60
DB 8341 CTCACCTGCTAGAGAGAGACATACGAGAGAGAAATCACTAATGCTTGTCTT 8400
QY 61 GCCCGAGAGAGGCCCGGAGCCATTAAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 8401 GCCCGAGAGAGGCCCGACACTGCTACCTCACTGAGAGAGACTTACGTGGAGGGCC 8460
QY 121 GATGAAAACGCAAGGCCCGCTGGGATATATGGGCTTGCAGCGAGCGGGTATT 180
DB 8461 CATGTTCAACAGCAAGGCCAGACTGCGGGTACAGCGCTTGCAGCGGGGTGCT 8520
QY 181 CACCAAGACTTGGGGAACACCATGACTTGTATCATCAAGGCCAARGCAGCTTGTAAAGC 240
DB 8521 TACCACTAGCATGGGGAACACCATGACTTGTATGTGAAGCCTTAGCGCCTGTAAAGC 8580
QY 241 YGCTGGCATTTGTTGACCCGGTGATGCTGCTGCGCGAGACCTTAGTGTATCTCAGA 300
DB 8581 TCGAGGGATTAATTGGGCCCAACATGCTGTATGCGCGATGACTTGTGTATCTCAGA 8640
QY 301 GAGCAAGGGGTAAGAGGAGACCAACGAGACCT 333
DB 8641 GAGCCAGGGGACCGAGAGAGACGAGCGGAGACCT 8673

Search completed: January 11, 2006, 14:46:44
Job time : 99.0405 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 136.291 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-103
Perfect score: 461
Sequence: 1 cgcacagcccccagaccaccc.....taggcgaccacgcgcgtc 461

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/ptodata/1/ina/1.COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5.COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H.COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PTUS.COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP.COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE.COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 461 | 100.0 | 461 | 3 | US-08-836-075A-103 |
| 2 | 415.4 | 90.1 | 9589 | 2 | US-07-925-695-1 |
| 3 | 415.4 | 90.1 | 9589 | 2 | US-07-925-695-2 |
| 4 | 405.8 | 88.0 | 526 | 2 | US-08-240-547-29 |
| 5 | 400.2 | 86.8 | 1195 | 3 | US-08-836-075A-75 |
| 6 | 399 | 86.6 | 9511 | 2 | US-07-925-695-6 |
| 7 | 399 | 86.6 | 9511 | 2 | US-07-925-695-7 |
| 8 | 398.6 | 86.5 | 652 | 3 | US-08-836-075A-59 |
| 9 | 396.6 | 86.0 | 2116 | 3 | US-08-191-160-21 |
| 10 | 395 | 85.7 | 780 | 3 | US-08-474-700B-45 |
| 11 | 393.4 | 85.3 | 713 | 3 | US-09-763-836-1 |
| 12 | 393.4 | 85.3 | 923 | 3 | US-08-869-380-1 |
| 13 | 393.4 | 85.3 | 923 | 6 | PCT-US95-13552-14 |
| 14 | 393.4 | 85.3 | 1499 | 2 | US-08-324-977-3 |
| 15 | 393.4 | 85.3 | 1499 | 2 | US-08-364-616-3 |
| 16 | 393.4 | 85.3 | 1499 | 2 | US-08-904-686A-3 |
| 17 | 393.4 | 85.3 | 1499 | 2 | US-09-315-850-3 |
| 18 | 393.4 | 85.3 | 1863 | 2 | US-08-470-426B-14 |
| 19 | 393.4 | 85.3 | 9416 | 2 | US-08-324-977-1 |
| 20 | 393.4 | 85.3 | 9416 | 2 | US-08-384-616-1 |
| 21 | 393.4 | 85.3 | 9416 | 2 | US-08-904-686A-1 |
| 22 | 393.4 | 85.3 | 9416 | 2 | US-09-315-850-1 |
| 23 | 393.4 | 85.3 | 9416 | 3 | US-08-823-895A-27 |
| 24 | 393.4 | 85.3 | 9472 | 3 | US-08-150-204E-96 |

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|----|-------|------|------|---|-------------------|--------------------|
| 25 | 391.8 | 85.0 | 9595 | 3 | US-09-014-416-4 | Sequence 4, Appli |
| 26 | 391.8 | 85.0 | 9599 | 3 | US-09-014-416-6 | Sequence 6, Appli |
| 27 | 391 | 84.8 | 9379 | 3 | US-08-444-818-176 | Sequence 176, App |
| 28 | 391 | 84.8 | 9401 | 6 | PCT-US91-02225-9 | Sequence 9, Appli |
| 29 | 391 | 84.8 | 9413 | 3 | US-09-827-688-6 | Sequence 6, Appli |
| 30 | 390.2 | 84.6 | 686 | 3 | US-08-988-521B-37 | Sequence 37, Appli |
| 31 | 390.2 | 84.6 | 686 | 3 | US-08-397-220B-25 | Sequence 25, Appli |
| 32 | 390.2 | 84.6 | 686 | 3 | US-08-650-093C-25 | Sequence 25, Appli |
| 33 | 388.6 | 84.3 | 504 | 3 | US-08-191-160-18 | Sequence 10, Appli |
| 34 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-94 | Sequence 94, Appli |
| 35 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-95 | Sequence 95, Appli |
| 36 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-96 | Sequence 96, Appli |
| 37 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-98 | Sequence 98, Appli |
| 38 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-100 | Sequence 100, App |
| 39 | 388.6 | 84.3 | 665 | 3 | US-08-444-818-102 | Sequence 102, App |
| 40 | 388.6 | 84.3 | 9185 | 3 | US-08-444-818-122 | Sequence 122, App |
| 41 | 388.6 | 84.3 | 9185 | 3 | US-08-444-818-123 | Sequence 123, App |
| 42 | 388.6 | 84.3 | 9379 | 3 | US-09-388-874-1 | Sequence 1, Appli |
| 43 | 388.6 | 84.3 | 9379 | 3 | US-09-916-359-1 | Sequence 1, Appli |
| 44 | 388.6 | 84.3 | 9401 | 2 | US-07-910-760-9 | Sequence 9, Appli |
| 45 | 388.6 | 84.3 | 9401 | 2 | US-08-440-519-9 | Sequence 9, Appli |

ALIGNMENTS

RESULT 1
US-08-836-075A-103
Sequence 103, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 103:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-103

| | | | | |
|-----------------------|-----------------|---------------------|-----------|-------------|
| Query Match | 100.0%; | Score 461; | DB 3; | Length 461; |
| Best Local Similarity | 100.0%; | Pred. No. 3.7e-129; | | |
| Matches 461; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |

| | | | |
|----|-----|--|-----|
| QY | 1 | CGTACAGCCTCCAGAGACCCCTCTCCCGGAGAGCATAGTGTCTGCGGAACCGGAG | 60 |
| Db | 1 | CGTACAGCCTCCAGAGACCCCTCTCCCGGAGAGCATAGTGTCTGCGGAACCGGAG | 60 |
| QY | 61 | TACACCGGAATTGGCGGGAAAGACTGGGTCTTTCTTGATTAAACCACTTAATGCCGGA | 120 |
| Db | 61 | TACACCGGAATTGGCGGGAAAGACTGGGTCTTTCTTGATTAAACCACTTAATGCCGGA | 120 |
| QY | 121 | GATTTGGGGGTGCCCCCGGAAAGACTCTAGCCGAGTAGCGTTAGGTTGGCAAAAGCCTTG | 180 |
| Db | 121 | GATTTGGGGGTGCCCCCGGAAAGACTCTAGCCGAGTAGCGTTAGGTTGGCAAAAGCCTTG | 180 |
| QY | 181 | TGGTACTGCTGATAGAGGTGCTTGCCAGAGTCCCGGAGAGTCTCGTAGACGTCACCAT | 240 |
| Db | 181 | TGGTACTGCTGATAGAGGTGCTTGCCAGAGTCCCGGAGAGTCTCGTAGACGTCACCAT | 240 |
| QY | 241 | GAGCAGCAATCTCTAAACCTCAAAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA | 300 |
| Db | 241 | GAGCAGCAATCTCTAAACCTCAAAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA | 300 |
| QY | 361 | CGTTAAGTCCCGGGGCGTGGCCAGATTCGTGGCGGGGTGTACTGTTGTCGGCGCAGGG | 360 |
| Db | 361 | CGTTAAGTCCCGGGGCGTGGCCAGATTCGTGGCGGGGTGTACTGTTGTCGGCGCAGGG | 360 |
| QY | 361 | CCCCAGAGTGTGTGCGCGCGACGAGAAAGACTTGGAGCGGTCCAGCGCGTGGAG | 420 |
| Db | 361 | CCCCAGAGTGTGTGCGCGCGACGAGAAAGACTTGGAGCGGTCCAGCGCGTGGAG | 420 |
| QY | 421 | GGCCCAACTATCCCAAGTTTAGGGGCAACCAACCGGCGGTT | 461 |
| Db | 421 | GGCCCAACTATCCCAAGTTTAGGGGCAACCAACCGGCGGTT | 461 |

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1 RESULT 2
2 US-07-925-695-1
3 ; Sequence 1, Application US/07925695
4 ; Patent No. 5428145
5 ;
6 ; GENERAL INFORMATION:
7 ;
8 ; APPLICANT: OKAMOTO, Hiroaki
9 ;
10 ; APPLICANT: NAKAMURA, Tetsuo
11 ;
12 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
13 ;
14 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
15 ;
16 ; TITLE OF INVENTION: DETECTION SYSTEMS
17 ;
18 ; NUMBER OF SEQUENCES: 9
19 ;
20 ; CORRESPONDENCE ADDRESS:
21 ;
22 ; ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
23 ;
24 ; STREET: 1850 M Street, N.W., Suite 800
25 ;
26 ; CITY: Washington
27 ;
28 ; STATE: D.C.
29 ;
30 ; COUNTRY: US
31 ;
32 ; ZIP: 20036
33 ;
34 ; COMPUTER READABLE FORM:
35 ;
36 ; MEDIUM TYPE: Floppy disk
37 ;
38 ; COMPUTER: IBM PC compatible
39 ;
40 ; OPERATING SYSTEM: PC-DOS/MS-DOS
41 ;
42 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
43 ;
44 ; CURRENT APPLICATION DATA:
45 ;
46 ; APPLICATION NUMBER: US/07/925, 695
47 ;
48 ; FILING DATE: 19920807
49 ;
50 ; CLASSIFICATION: 435
51 ;
52 ; PRIOR APPLICATION DATA:
53 ;
54 ; APPLICATION NUMBER: JP 287402/91
55 ;
56 ; FILING DATE: 09-AUG-1991
57 ;
58 ; PRIOR APPLICATION DATA: JP 360441/91
59 ;
60 ; APPLICATION NUMBER: JP 360441/91
61 ;
62 ; FILING DATE: 05-DEC-1991
63 ;

```

```

: ATTORNEY/AGENT INFORMATION:
: NAME: Weilacher, Robert G.
: REGISTRATION NUMBER: 20,531
: REFERENCE/DOCKET NUMBER: 06/87-48005
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (202) 659-2811
: TELEFAX: (202) 659-1462
: TELE: WU 64470
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 9589 base pairs
: TYPE: NUCLEIC ACID
: STRANDEDNESS: single
: TOPOLOGY: linear
:
: US-07-925-695-1

```

| | | | | |
|-----------------------|------------------|---------------------|-----------|--------------|
| Query Match | 90.1%; | Score 415.4; | DB 2; | Length 9589; |
| Best Local Similarity | 78.3%; | Pred. No. 6.4e-115; | | |
| Matches 358; | Conservative 73; | Mismatches 26; | Indels 0; | Gaps 0 |

| | | | |
|----|-----|---|-----|
| QY | 1 | GGTAAAGGCTCCAGGACCCCCCTCCGGGAGAGCATGTGTGTGCGGAAACGGTGGAG | 60 |
| Db | 103 | CGUACGCTCCAGGACCCCCCTCCGGGAGAGCATGAGTGTGCGGAAACGGTGGAG | 162 |
| QY | 61 | TACACCGGAATTGCGGGAGAAGCTGGTCTTTCTTGGATTAACCACTTATGCCGGA | 120 |
| Db | 163 | UACACCGGAATGCGGGAGAAGCTGGTCTTTCTTGGATTAACCACTTATGCCGGA | 222 |
| QY | 121 | GATTGGGCGTGGCCCCCGGCANAGCTGTAGCCGAGTGTGGTGGTGGGAAAGGCGTGG | 180 |
| Db | 223 | CAUUDGGCGTGGCCCCCGGCANAGCTGTAGCCGAGTGTGGTGGTGGGAAAGGCGTGG | 282 |
| QY | 181 | TGTGTACTGCTGATATAGGGGTGTGGAGTGGCCCGGGAGTGTCTGTAGACCGTGCACAT | 240 |
| Db | 283 | UGGUAUCUCCUGAUAAGGGGTCUGGAGTGGCCCGGGAGGTCUGAAGACCGTGACCAU | 342 |
| QY | 241 | GAGCAGCAATCTTAACCTCAAAAGCAAAACCAAAAGAAACCAACCCGCCACACAGA | 300 |
| Db | 343 | GAGCAGCAAAUCCUAAACCUCAAAAGAAAGAAACCAAAAGAAACCAACCCGCCACAA | 402 |
| QY | 361 | CGTTAAGTTCOCGGGCGGTGGCGAATCGTTGGCGGGGGTGACTTGTTCOCGGCGAGGG | 360 |
| Db | 403 | CGUUAAGUUDCCGGGCGGTGGCGAATCGUUDGGCGGAGUAUCUUDUUDCCGGCGAGGG | 462 |
| QY | 361 | CCCCAGATGGGTGTGGCGCGCAGCAGAAAGACCTCGAGCGGTCCCAACCGCGTGGAG | 420 |
| Db | 463 | CCCCAGUUDGGUUGCGCGCAGCAAGAAAGACCTTCGAGCGGUCCTCAAGCAACGUGAAG | 522 |
| QY | 421 | GGCCCAACTTATCCCAAGGTTAAGCGCACACCGGC | 457 |
| Db | 523 | GGCGAGCCCAUCCUAAAGACCGGCGUCCACUUGC | 559 |

```

1 RESULT 3
2 US-07-925-695-2
3 ; Sequence 2, Application US/07925695
4 ; Patent No. 5428145
5 ; GENERAL INFORMATION:
6 ; APPLICANT: OKAMOTO, Hiroaki
7 ; APPLICANT: NAKAMURA, Tetsuo
8 ; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
9 ; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
10 ; TITLE OF INVENTION: DETECTION SYSTEMS
11 ; NUMBER OF SEQUENCES: 9
12 ; CORRESPONDENCE ADDRESS:
13 ; ADDRESSEE: Beveridge, Degrandi, Weilaecher & Young
14 ; STREET: 1850 M Street, N.W., Suite 800
15 ; CITY: Washington
16 ; STATE: D.C.
17 ; COUNTRY: US
18 ; ZIP: 20036
19 ; COMPUTER READABLE FORM:
20 ; MEDIUM TYPE: Floppy disk
21 ;

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Weillacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 9589 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-2

Query Match 90.1%; Score 415.4; DB 2; Length 9589;
Best Local Similarity 94.3%; Pred. No. 6.4e-115;
Matches 431; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 60
DB 103 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 162
QY 61 TACACCGGAATTCGCGGAGAGAGTGGTCTTCTTGATTAACCACTCATAGCCCGGA 120
DB 163 TACACCGGAATTCGCGGAGAGAGTGGTCTTCTTGATTAACCACTCATAGCCCGGT 222
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTTGGGTTCGAAAGGCTTGG 180
DB 223 CATTTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTTGGGTTCGAAAGGCTTGG 282
QY 181 TGTACTGCTGTAGAGGTCTTGGAGTGCCTCCGAGGTCTGTAGACCGTGCACCAT 240
DB 283 TGTACTGCTGTAGAGGTCTTGGAGTGCCTCCGAGGTCTGTAGACCGTGCACCAT 342
QY 241 GAGCAGCAATCTTAACTCAAGCAAAACCAAGAAACCAACCGCGCCGCAAGGA 300
DB 343 GAGCAGCAATCTTAACTCAAGCAAAACCAAGAAACCAACCGCGCCGCAAGGA 402
QY 301 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTTCGCGCAGGGG 360
DB 403 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTTCGCGCAGGGG 462
QY 361 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGACTCGAGCGGTCCAGCGCGTGGAG 420
DB 463 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGACTTCGAGCGGTCCAGCCACGTGGAG 522
QY 421 GCGCAACCTATCCCAAGGTTAGCGGACCAACCGGC 457
DB 523 GCGCAACCTATCCCAAGGTTAGCGGCTCCACGCGC 559

RESULT 4
US-08-240-547-29
Sequence 29, Application US/08240547
Patent No. 5527669
GENERAL INFORMATION:
APPLICANT: Resnick, Robert M.
APPLICANT: Young, Karen K.Y.

TITLE OF INVENTION: Primers and Probes for Detection of
TITLE OF INVENTION: Hepatitis C and No. 5527669e1 Variants
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: NJ
COUNTRY: U.S.A.
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/240,547
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/918,844
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sias Ph.D., Stacey R.
REGISTRATION NUMBER: 32,630
REFERENCE/DOCKET NUMBER: 8586
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 814-2863
TELEFAX: (510) 814-2977
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 526 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-240-547-29

Query Match 88.0%; Score 405.8; DB 2; Length 526;
Best Local Similarity 93.0%; Pred. No. 1.7e-112;
Matches 425; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
QY 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 60
DB 48 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTCTGGGAAACCGGTAG 107
QY 61 TACACCGGAATTCGCGGAGAGAGTGGTCTTCTTGATTAACCACTCATAGCCCGGA 120
DB 108 TACACCGGAATTCGCGGAGAGAGTGGTCTTCTTGATTAACCACTCATAGCCCGGT 167
QY 121 GATTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTTGGGTTCGAAAGGCTTGG 180
DB 168 CATTTGGGCGTGCCTCCGCAAGACTGTAGCCGATGCTTGGGTTCGAAAGGCTTGG 227
QY 181 TGTACTGCTGTAGAGGTCTTGCAGTGCCTCCGAGAGGTCTGTAGACCGTGCACCAT 240
DB 228 TGTACTGCTGTAGAGGTCTTGCAGTGCCTCCGAGAGGTCTGTAGACCGTGCACCAT 287
QY 241 GAGCAGCAATCTTAACTCAAGCAAAACCAAGAAACCAACCGCGCCGCAAGGA 300
DB 288 GAGCAGCAATCTTAACTCAAGCAAAACCAAGAAACCAACCGCGCCGCAAGGA 347
QY 301 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTTCGCGCAGGGG 360
DB 348 CGTTAAGTTCCCGGCGGTGCGCAGATCGTTGCGGGGTGTACTTGTTCGCGCAGGGG 407
QY 361 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGACTTCGAGCGGTCCAGCGCGTGGAG 420
DB 408 CCCAGAGTGGGTGTGCGCGCAGCAGAAAGACTTCGAGCGGTCCAGCGCGTGGAG 467
QY 421 GCGCAACCTATCCCAAGGTTAGCGGACCAACCGGC 457
DB 468 ACGCAACCTATCCCAAGGTTAGCGGCTCCACGCGC 504

RESULT 5
US-08-836-075A-75
Sequence 75, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 1195 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-75

Query Match 86.8%; Score 400.2; DB 3; Length 1195;
Best Local Similarity 91.2%; Pred. No. 1,1e-110;
Matches 417; Conservative 1; Mismatches 39; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGACATGCTGCTGCGAAACCGGTAG 60
DB 1 CGNACANCTCCAGAGCCCCCTCCCGGAGAGACCATGCTGCTGCGAAACCGGTAG 60
QY 61 TACACCGGAATTCGCGGGAAGAAGCTGGTCTTTCTTGATTAACCACTCTATGCGCGGA 120
DB 61 TACACCGGAATTCGCGGGAAGAAGCTGGTCTTTCTTGATTAACCACTCTATGCGCGGC 120
QY 121 GATTGGGGGTCGCCCCGCAAGCTGCTAGCCGAGTAGCGTTGGTGGGTAAGGCTTG 180
DB 121 CATTTGGGGTGCCTCCCGCAAGACTGCTATCCGAGTAGCGTTGGTGGGTAAGGCTTG 180
QY 181 TGGTCTGCTGATATGGGTCCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGCAATCAT 240
DB 181 TGGTCTGCTGATATGGGTCCTTGAGAGTCCCGGAGAGTCTCGTAGCCGTGCAATCAT 240
QY 241 GAGCAGGAATCTAAACCTCAAGACAAACAAAGAAACCAACCAACCGCCGCCACAGGA 300

DB 241 GAGCAGGAATCTAAACCTCAAGAAAAAACAAAGAAACCTAACCGCCGCCACAGGA 300
QY 301 CGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGGGTGTACTGTTGCGCGAGGG 360
DB 301 CGTTAAGTCCCGGCGGTGGCCAGATCGTTGGCGGGGTGTACTGTTGCGCGAGGG 360
QY 361 CCCGAGTGGTGTGGCGCGAGCAGAAAGACCTCGAGCGGTCCAGCGCGGTGGAG 420
DB 361 NCCGAGTNGTNTATNGCCAGACGAGAGACTNCCGAACAGTCCAGCAGGTGGAG 420
QY 421 GCGCCAACTATCCCAAGGTTAGCGCCACCGCGC 457
DB 421 GCGCCAGCCATCCCGAAAGATGAGNCAACCACTGCGC 457

RESULT 6
US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Tetsuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
TITLE OF INVENTION: DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, Degrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WUI 64470
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-6

Query Match 86.6%; Score 399; DB 2; Length 9511;
Best Local Similarity 76.4%; Pred. No. 5.7e-110;
Matches 349; Conservative 72; Mismatches 36; Indels 0; Gaps 0;

QY 1 CGTACAGCCTCCAGAGACCCCTCCCGGAGAGCATTATGCTGCGAAACCGGTAG 60
DB 104 CGUACAGCCTCCAGAGCCCCCTCCCGGAGAGCATTATGCTGCGAAACCGGTAG 163

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QY 61 TACACCGGAATTGCGGAGAACTGGGTCCTTTCTTGATTAACCACTATGCCCCGA 120
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 164 UACACCGGAATUACCGGAAAGACUGGUCUUCUGGAGUAAACCAUCUAGUCGGu 223
QY 121 GATTGGGCGGCGCCCGCAAGACGCTAGCCGATACCGTGGTGGCGAAAGCCCTTG 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 224 CAUUDGGGCGAGCCCCCGCAAGACUGCUAGCCGAAUACGUGGUGGUGCGAAAGCCUUG 283
QY 181 TGCTACTGCTGATATGGTGTGCTTGCAGATGCCCCGGAGGCTCTGTAGACGTCACCAT 240
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 284 UGUAUCUCCTGUAUGGURUCUGAGUGCCCGGAGUGUCUGUAGACCGUGCAUUAU 343
QY 241 GAGCAGCAATCTTAAACCTCAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA 300
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 344 GAGCAGCAATCTTAAACCTCAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA 403
QY 301 CGTTAAGTTCCTGAGGCGGCGGACAGATGTTGGCGGGGTGATCTTGTTCGCGGAGGG 360
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 404 CGUAAAGUCCCGGUGGCGGUGCAUAGUGGCGGAGUUAUACUGCGCGCGGAGGGG 463
QY 361 CCCGAGTGGGTGTGCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 420
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 464 CCCAGUGUGGUGGUGCGCGGACGAGAAAGACUUCYAGCGAUTCACCGCGUGAGCG 523
QY 421 GCGCCAACTATCCCAAGTTAGCGCGACCAACCGGC 457
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 524 ACGCCAGCCCAUCCGAAAGAACGCGCUCACCGCGC 560

```

RESULT 7

US-07-925-695-7

Sequence 7, Application US/07925695

Patent No. 5428145

GENERAL INFORMATION:

APPLICANT: OKAMOTO, Hiroaki

APPLICANT: NAKAMURA, Tetsuo

TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,

TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND

TITLE OF INVENTION: DETECTION SYSTEMS

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Beveridge, Degrandi, Weillacher & Young

STREET: 1850 M Street, N.W., Suite 800

CITY: Washington

STATE: D.C.

COUNTRY: US

ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/925,695

FILING DATE: 19920807

CLASSIFICATION: 435

APPLICATION NUMBER: JP 287402/91

PRIOR APPLICATION DATA:

FILING DATE: 09-AUG-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 360441/91

FILING DATE: 05-DEC-1991

ATTORNEY/AGENT INFORMATION:

NAME: Weillacher, Robert G.

REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 06/87-48009

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 659-2811

TELEFAX: (202) 659-1462

TELEX: WUI 64470

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 9511 base pairs

TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-7

Query Match 86.6%; Score 399; DB 2; Length 9511;
Best Local Similarity 91.9%; Pred. No. 5,7e-110;
Matches 420; Conservative 1; Mismatches 36; Indels 0; Gaps 0;

```

QY 1 CGTACAGCTTCAGAGACCCCGCTCCCGGAGAGCCATAGTGTCTCGGAAACCGGTGAG 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 104 GGTACAGCTTCAGAGACCCCGCTCCCGGAGAGCCATAGTGTCTCGGAAACCGGTGAG 163
QY 61 TACACCGGAATTGCGGAGAACTGGGTCCTTTCTTGATTAACCACTATGCCCCGA 120
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 164 UACACCGGAATUACCGGAAAGACUGGUCUUCUGGAGUAAACCAUCUAGUCGGu 223
QY 121 GATTGGGCGGCGCCCGCAAGACGCTAGCCGATACCGTGGTGGCGAAAGCCCTTG 180
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 224 CAUUDGGGCGAGCCCCCGCAAGACUGCUAGCCGAAUACGUGGUGGUGCGAAAGCCUUG 283
QY 181 TGCTACTGCTGATATGGTGTGCTTGCAGATGCCCCGGAGGCTCTGTAGACGTCACCAT 240
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 284 UGUAUCUCCTGUAUGGURUCUGAGUGCCCGGAGUGUCUGUAGACCGUGCAUUAU 343
QY 241 GAGCAGCAATCTTAAACCTCAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA 300
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 344 GAGCAGCAATCTTAAACCTCAAGACAAACCAAAAGAAACCAACCGCGCCACAGGA 403
QY 301 CGTTAAGTTCCTGAGGCGGCGGACAGATGTTGGCGGGGTGATCTTGTTCGCGGAGGG 360
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 404 CGTTAAGTTCCTGAGGCGGCGGACAGATGTTGGCGGGGTGATCTTGTTCGCGGAGGG 463
QY 361 CCCGAGTGGGTGTGCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 420
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 464 CCCAGTGGGTGTGCGCGGACGAGAAAGACCTCGAGCGGTCGACCGCGTGGAG 523
QY 421 GCGCCAACTATCCCAAGTTAGCGCGACCAACCGGC 457
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 524 ACGCCAGCCATCCGAAAGATCGCGCTCCACCGGC 560

```

RESULT 8

US-08-836-075A-59

Sequence 59, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

TITLE OF INVENTION: AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: EP 95870076.7
 FILING DATE: 28 Jun 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: KAMMERER, PATRICIA A.
 REGISTRATION NUMBER: 29,775
 REFERENCE/DOCKET NUMBER: INNS:004
 INFORMATION FOR SEQ ID NO: 59:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 652 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 US-08-836-075A-59

Query Match 86.5%; Score 398.6; DB 3; Length 652;
 Best Local Similarity 91.5%; Pred. No. 2,7e-110;
 Matches 422; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

```

QY      1 CGTACAGCCTCCAGAGACCCCTCCGAGAGAGCCATAGTGTGCGAAACCGGTAG 60
DB      1 CGTACAGCCTCCAGAGACCCCTCCGAGAGAGCCATAGTGTGCGAAACCGGTAG 60
QY      61 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTACCACTATATGCCCGGA 120
DB      61 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTACCACTATATGCCCGGA 120
QY      61 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTACCACTATATGCCCGGA 120
DB      61 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTACCACTATATGCCCGGA 120
QY      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
DB      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
QY      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
DB      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
QY      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
DB      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
QY      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
DB      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
QY      241 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCCGCCACAGGA 300
DB      241 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCCGCCACAGGA 300
QY      241 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCCGCCACAGGA 300
DB      241 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCCGCCACAGGA 300
QY      301 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 360
DB      301 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 360
QY      301 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 360
DB      301 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 360
QY      361 CCCCAAGTGGGTGCGCGCGACGAGAAAGACTTCGAGACGGTCCACCGCGTGGAG 420
DB      361 CCCCAAGTGGGTGCGCGCGACGAGAAAGACTTCGAGACGGTCCACCGCGTGGAG 420
QY      421 GCGCAACCTATCCCAAGTGAAGCGGCAACCGCGCGGT 461
DB      421 GCGCAACCTATCCCAAGTGAAGCGGCAACCGCGCGGT 461
  
```

RESULT 9

US-08-191-160-21
 Sequence 21, Application US/08191160
 Patent No. 6210675
 GENERAL INFORMATION:
 APPLICANT: Highfield, Peter Edmund
 APPLICANT: Rodgers, Brian Colin
 APPLICANT: Tedder, Richard Seton
 APPLICANT: Barbara, John Anthony James
 TITLE OF INVENTION: Viral Agent
 NUMBER OF SEQUENCES: 25
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rothwell, Figs, Ernst & Kurz
 STREET: 1700 K Street
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.

ZIP: 20006
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM AT compatible
 OPERATING SYSTEM: MS-DOS V3.2
 SOFTWARE: Wordperfect 5.0 (DOS text)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/191,160
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/628,516
 FILING DATE: 17 DEC 1990
 APPLICATION NUMBER: UK 89 28 562.1
 FILING DATE: 18 DEC 1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 90 04 414.0
 FILING DATE: 27 FEB 1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: UK 90 04 814.1
 FILING DATE: 03 MAR 1990
 ATTORNEY/AGENT INFORMATION:
 NAME: E. Anthony Figs
 REGISTRATION NUMBER: 27,195
 REFERENCE/DOCKET NUMBER: 1645-103A
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 833-5740
 TELEFAX: (202) 833-5744
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2116 base pairs
 TYPE: nucleotide with corresponding protein
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to genomic RNA
 ORIGINAL SOURCE:
 ORGANISM: human; serum infectious for PT-NANBH
 IMMEDIATE SOURCE:
 LIBRARY: cDNA clones from 5' end of the genome
 FEATURE:
 LOCATION: from 308 to 2116 bp start of the PT-NANBH
 LOCATION: polyprotein
 OTHER INFORMATION: viral structural and non-structural
 OTHER INFORMATION: proteins
 US-08-191-160-21

Query Match 86.0%; Score 396.6; DB 3; Length 2116;
 Best Local Similarity 91.5%; Pred. No. 1,7e-109;
 Matches 420; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

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QY      1 CGTACAGCCTCCAGAGACCCCTCCGAGAGAGCCATAGTGTGCGGAACCGGTAG 60
DB      70 CGTACAGCCTCCAGAGACCCCTCCGAGAGAGCCATAGTGTGCGGAACCGGTAG 129
QY      61 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTAAACCACTATGCCCGGA 120
DB      130 TACACCGGAATTCGCGGGAAGATGGTCTTTCTTGATTAAACCACTATGCCCGGA 189
QY      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
DB      121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 180
QY      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
DB      190 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGCTGAGTTCGGAAGGCTTG 249
QY      181 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 240
DB      250 TGGTACTGCTGATAGGGTCTTGCAGTGTCCCGGAGGTCTGTAAGCCGTGACCAT 309
QY      241 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCGCCACAGGA 300
DB      310 GAGCAGCAATCTTAACCTCAAGAAAGCAAAAGAAACCAACCGCGCCACAGGA 369
QY      301 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 360
DB      370 CGTTAAGTTCCTCCGCGGCTGCGCAGATGCTTGGCGGGGTGTACTTGTTCGCGCAGGGG 429
  
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QY 361 CCCGAGTGGGTGTGCGCGCAGAGAAAGACTCGAGCGGTCCGAGCGCGTGGAG 420
DB 430 CCCGAGTGGGTGTGCGCGCAGACTAGAGAGCTTCCGAGCGGTGCAACTCGTGAAG 489
QY 421 GCGCAACCTATCCCAAGTTAGGCGCAGCACCGGCGG 459
DB 490 GCGCAACCTATCCCAAGCTCGCGAGCCGAGGGCAG 528

RESULT 10

US-08-474-700B-45
; Sequence 45, Application US/08474700B
; Patent No. 6001990
; GENERAL INFORMATION:
; APPLICANT: Wanda, Jack
; APPLICANT: Wakita, Takaji
; APPLICANT: Moradpour, Darius
; TITLE OF INVENTION: ANTISENSE INHIBITION OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,700B
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/240,382
; FILING DATE: 10 May 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraeier, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 00786/279001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 780 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-474-700B-45

Query Match 85.7%; Score 395; DB 3; Length 780;
Best Local Similarity 91.3%; Pred. No. 3.6e-109;
Matches 419; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 CGTACAGCTCCGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
DB 104 CGTGAAGCTCCGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 163
QY 61 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTATGCGCGGA 120
DB 164 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTATGCGCGGA 223
QY 121 GATTGGGCGTGGCCCGGAGAGACTGTAGCGAGTAGCGTTGGGTGCGGAAGGCTTG 180
DB 224 GATTGGGCGTGGCCCGGAGAGACTGTAGCGAGTAGCGTTGGGTGCGGAAGGCTTG 283
QY 181 TGTACTGCTGTGATAGGGTGTCTTGCGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 240

DB 284 TGTACTGCTGTGATAGGGTGTCTTGCGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 343
QY 241 GAGACCGAATCTTAACCTCAAGAGCAAAACCAAGAAAGCAACCGCGCCGACAGGA 300
DB 344 GAGACCGAATCTTAACCTCAAGAGAAACCAAGAGCAACCGCGCCGACAGGA 403
QY 301 CGTTAAGTTCCCGGCGCGGTGGCCAGATCGTTGGCGGGGTGACTTGTTCGCGCAGGGG 360
DB 404 CGTCAAGTTCCCGGCGCGGTGGTCAATCGTTGGTGAATTAACCTGTTCGCGCAGGGG 463
QY 361 CCCGAGTGGGTGTGCGCGCAGAGAAAGACTCGAGCGGTCCGAGCGCGTGGAG 420
DB 464 CCCGAGTGGGTGTGCGCGCAGACTAGAGACTTCCGAGCGGTGCGCAACTCGTGAAG 523
QY 421 GCGCAACCTATCCCAAGTTAGGCGCAGCACCGGCGG 459
DB 524 GCGCAACCTATCCCAAGTATCGCGGCGCGGCGGCGAG 562

RESULT 11

US-09-763-836-1
; Sequence 1, Application US/09763836
; Patent No. 6869779
; GENERAL INFORMATION:
; APPLICANT: YAMADA, Osamu
; APPLICANT: YOSHIDA, Hiroshi
; APPLICANT: ZHANG, Jing
; TITLE OF INVENTION: Nucleic Acid Sequence which Enhances Gene Expression and Method
; Patent No. 6869779
; TITLE OF INVENTION: Enhancing Gene Expression
; FILE REFERENCE: 19036/37156
; CURRENT APPLICATION NUMBER: US/09/763,836
; CURRENT FILING DATE: 2001-02-27
; NUMBER OF SEQ ID NOS: 11
; SEQ ID NO 1
; LENGTH: 713
; TYPE: DNA
; ORGANISM: Hepatitis Type C Virus (HCV)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(341)
; NAME/KEY: CDS
; LOCATION: (342)..(713)
; US-09-763-836-1

Query Match 85.3%; Score 393.4; DB 3; Length 713;
Best Local Similarity 91.1%; Pred. No. 1e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 CGTACAGCTCCGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
DB 104 CGTGAAGCTCCGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 163
QY 61 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTATGCGCGGA 120
DB 164 TACACCGGAATTTGCGGGAAGACTGGGTCTTTCTTGAATTAACCACTATGCGCGGA 223
QY 121 GATTGGGCGTGGCCCGGAGAGACTGTAGCGAGTAGCGTTGGGTGCGGAAGGCTTG 180
DB 224 GATTGGGCGTGGCCCGGAGAGACTGTAGCGAGTAGCGTTGGGTGCGGAAGGCTTG 283
QY 181 TGTACTGCTGTGATAGGGTGTCTTGCGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 240
DB 284 TGTACTGCTGTGATAGGGTGTCTTGCGAGTGCCTCCGGAAGGTCTGTAGACCGTGACCAT 343
QY 241 GAGACCGAATCTTAACCTCAAGAGCAAAACCAAGAAAGCAACCGCGCCGACAGGA 300
DB 344 GAGACCGAATCTTAACCTCAAGAGAAACCAAGAGCAACCGCGCCGACAGGA 403
QY 301 CGTTAAGTTCCCGGCGCGGTGGCCAGATCGTTGGCGGGGTGACTTGTTCGCGCAGGGG 360
DB 404 CGTCAAGTTCCCGGCGCGGTGGTCAATCGTTGGTGAATTAACCTGTTCGCGCAGGGG 463

QY 361 CCCGAGGTGGGTGTGTGCGGCGACGAGAAAGACTGTGGAGCGTTCAGCGGTGGAG 450
Db 464 CCCGAGTTGGGTGTGTGCGGCGACGTGAGAAAGACTTCGAGCGGTTCGAACTGTGGAG 523
QY 421 GGGCCACTATTCCTCAGAGTTAGGGGCACTCACCGGCGC 459
Db 524 GCGACACTATTCCTCAGAGGTGTGCGGCGGCGGAGGAG 562

RESULT 12
US-08-869-380-1

? Sequence 1, Application US/08069380
 ? Patent No. 6235888
 ?
 ? GENERAL INFORMATION:
 ?
 ? APPLICANT: Pachuk, Catherine J.
 ?
 ? APPLICANT: Wands, Jack
 ?
 ? APPLICANT: Wakita, Takaji
 ?
 ? APPLICANT: Zurawski, Jr., Vincent R.
 ?
 ? APPLICANT: Coney, Leslie R.
 ?
 ? TITLE OF INVENTION: Hepatitis C Virus Vaccine
 ?
 ?
 ? NUMBER OF SEQUENCES: 7
 ?
 ? CORRESPONDENCE ADDRESS:
 ?
 ? ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz &
 ?
 ? ADDRESSEE: No. 6235888ris
 ?
 ? STREET: One Liberty Place, 46th floor
 ?
 ? CITY: Philadelphia
 ?
 ? STATE: PA
 ?
 ? COUNTRY: USA
 ?
 ?
 ?

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? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/869,380
?

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/318,248
;

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ATTORNEY/AGENT INFORMATION:
NAME: Deluca, Mark
REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: APOL-0189
TELECOMMUNICATION INFORMATION:

; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 1:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 923 base pairs
; TYPE: misc

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;
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear

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MOLECULE TYPE: CDNA
FEATURE:

| | |
|-----------|----------|
| NAME/KEY: | CDS |
| LOCATION: | 342..914 |

US-08-869-380-1

| | | | | |
|---------------------------|-------|--------------------|----------|------------|
| Query Match | 85.3% | Score 393.4 | DB:3 | Length 923 |
| Best Local Similarity | 91.1% | Pred. No. 1.2e-108 | | |
| Matches 418; Conservative | 0 | Mismatches 41 | Indels 0 | Gaps 0 |

QY 1 CGTACAGCCTCCAGGACCCCCCTCCCGGAGAGCCATAGTGGTCTGGGAAACCGGTGAG 60

Db 104 CGTGCAGCCTCCAGGACCCCCCTCCCGGAGAGCCATAGTGGTCTGGGAAACCGGTGAG 163

QY 61 TACACCGGAATTGCCCGGAGACTGGGTCCTTTCTTGATTTAACCACTCTATGCCGGA 120

Db 164 TACACCGGAATTGCCCGGAGACCGGGCTCTTTCTTGATCAACCGGCTCAATGCCCTGGA 223

QY 121 GATTGGGCGTGCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTTGCCAAAGCCCTTG 180

| | | | |
|----|-----|---|-----|
| Db | 224 | GATTTGGCGCTGCCCCCGGAGACCTGTACCGCAGTA | 283 |
| | | | |
| OY | 181 | TGTACTGCGCTGATAGAGTGCTTTCGAGTGCCCGGAGGTCTTCGTAGACCGTGACACAT | 240 |
| Db | 284 | TGTAAGTGCCTGATAGAGTGCTTTCGAGTGCCCGGAGGTCTTCGTAGACCGTGACACAT | 343 |
| OY | 241 | GACACGAGATCCCTAAACCTCAAGACAAACCAAAAGAAACCAACCGCGCCACAGCA | 300 |
| Db | 344 | GAGACGAGATCCCTAAACCTCAAGAGAAAAACCAACGTAACCAACCGCGCCACAGCA | 403 |
| OY | 301 | CGTTAAGTTCGCGGCGGATGAGCAGATCGTTTGCGGAGTGTCTTGTTCGCGCAGAGG | 360 |
| Db | 404 | CTCAAGTTCGCGGCGGATGAGTCAAGATCGTTTGAGATTACTGTTCGCGCAGAGG | 463 |
| OY | 361 | CCCCAAGAGTGGTGTGCGCGCACAGAAAGACCTCGAGGCGGTCCAGCGCGGTGGAG | 420 |
| Db | 464 | CCCCAGGTGGGTTGTCGCGCGACCTTAGAGAGCTTCCAGGCGGTGCGAACCTGTGGAG | 523 |
| OY | 421 | GGCGCAACCTATCCCAAGGTTAAGCGCACCAACCGGCGG | 459 |
| Db | 524 | GCGACAACTATCCCAAGAGATCGCGGCGCGAGGGGCAAG | 562 |

RESULT 13
PCT-US95-13552-14

```
; Sequence 14, Application PC/TUS9513552
; GENERAL INFORMATION:
```

APPLICANT: Wands, Jack
APPLICANT: Tokushige, Katsutoshi
APPLICANT: Tokushige, Katsutoshi

APPLICANT: wakita, Takaji
APPLICANT: Pachuk, Catherine J.
APPLICANT: Zurawski, Jr Vincent R

APPLICANT: Coney, Leslie R.
TITLE OF INVENTION: HEPATITIS VIRUS

NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:

ADDRESSEE: Woodcock, Kurtz, Mackiewicz &
ADDRESSEE: Norris

STREET: One Liberty Place, 46th floor
CITY: Philadelphia

STATE: PA
COUNTRY: USA
ZTP. 19103

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy

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COMPUTER:  IBM PC compatible
OPERATING SYSTEM:  PC-DOS/MS-DOS

```

```

; SOFTWARE: wordperfect 5.1
; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: P
FILING DATE: Herewith

```

; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER. ITS 08/319 248

```

APPLICANT NUMBER: 05-08-218,219
FILING DATE: 05-OCT-1994
CLASSIFICATION:

STANDARD INFORMATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/467,859

FILING DATE: 06-JUN-1995
 CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: DeLuca, Mark

REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: APOL-023
REGISTRATION INFORMATION

TELECOMMUNICATION INFORMATION
TELEPHONE: (215) 568-3100
TELETYPE: (215) 568-3439

TELEFAX: (215) 588-3455
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:

LENGTH: 923 base pairs
TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 342..914
PCT-US95-13552-14

Query Match 85.3%; Score 393.4; DB 6; Length 923;
Best Local Similarity 91.1%; Pred. No. 1.2e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

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Qy 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
Db 104 CGTGAAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 163
Qy 61 TACACCGGAATTCGCGGAGAGCTGGTCTCTTCTTGATTAACCACTCTATGCCCCGA 120
Db 164 TACACCGGAATTCGCGGAGAGCCGCGGTCTTCTTGATTAACCACTCTATGCTTGA 223
Qy 121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGAGTGGTGGGAGAAAGCCTTG 180
Db 224 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGAGTGGTGGGAGAAAGCCTTG 283
Qy 181 TGGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGGTCTCTGAGACCGTGACCAT 240
Db 284 TGGTACTGCTGATAGGGTGTCTTGGAGTGCCTCCGAGGTCTCTGAGACCGTGACCAT 343
Qy 241 GAGCAGCAATCTTAACCTCAAGACAAACCAAGAAACCAACCGCCGCCACAGAG 300
Db 344 GAGCAGCAATCTTAACCTCAAGACAAACCAAGAAACCAACCGCCGCCACAGAG 403
Qy 301 CGTTAAGTTCGCGGCGGTGGCGAGATGTTGGCGGGGTGATCTTGTGGCGCGAGGGG 360
Db 404 CCTCAAGTTCGCGGCGGTGGCGAGATGTTGGCGGGGTGATCTTGTGGCGCGAGGGG 463
Qy 361 CCCGAGGTGGGTGTGCGCGCAGCAGAAAGACCTCGAGCGGTCCCAAGCGGTGGAG 420
Db 464 CCCGAGGTGGGTGTGCGCGCAGCAGAAAGACCTTCGAGCGGTGGCAACCTCGTGAAG 523
Qy 421 GCGCCAACTTATCCCAAGGTTAGGCGCACCAACCGCGCGG 459
Db 524 GCGCAACCTTATCCCAAGGATCGCGCGCGAGGGGCGAG 562

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RESULT 14
US-08-324-977-3
Sequence 3, Application US/08324977
Patent No. 5747339
GENERAL INFORMATION:
APPLICANT: OKAYAMA, Hitoto
APPLICANT: FUKE, Isao
APPLICANT: MORI, Chisato
APPLICANT: TAKAMIZAWA, Akahisa
APPLICANT: YOSHIDA, Iwao
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Armstrong, Westerman, Hattori, McIreland &
ADDRESS: Naughton
STREET: 1725 K St., N.W. Suite 1000
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20006
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in., 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,977
FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-167466
FILING DATE: 25-JUN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-230921
FILING DATE: 31-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 2-305605
FILING DATE: 09-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/099,706
FILING DATE: 30-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/769,996
FILING DATE: 02-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/635,451
FILING DATE: 28-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Stevens-Smith, Theresa M.
REGISTRATION NUMBER: 36,281
REFERENCE/DOCKET NUMBER: 900703D
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2930
TELEFAX: (202) 887-0357
TELEX: 440142
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1499 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA from genomic RNA
FEATURE:
NAME/KEY: CDS
LOCATION: 333..1499
FEATURE:
NAME/KEY: misc feature
LOCATION: 1..1499
OTHER INFORMATION: /note="sequence = 1 - 1499 of SEQ
OTHER INFORMATION: ID NO: 1"

Query Match 85.3%; Score 393.4; DB 2; Length 1499;
Best Local Similarity 91.1%; Pred. No. 1.4e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

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Qy 1 CGTACAGCTTCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 60
Db 95 CGTGAAGCTCCAGAGACCCCTCCCGGAGAGCCATAGTGTGCGGAACCGGTGAG 154
Qy 61 TACACCGGAATTCGCGGAGAGCTGGGTCTTTCTTGATTAACCACTATGCCGGA 120
Db 155 TACACCGGAATTCGCGGAGAGCCGCGGTCTTTCTTGATTAACCACTATGCCGGA 214
Qy 121 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGAGTGGGTGGGAAAGCCTTG 180
Db 215 GATTGGGCGTGCCTCCGCAAGACTGCTAGCCGATGAGTGGGTGGGAAAGCCTTG 274
Qy 181 TGGTACTGCTGATAGGGTCTTGGAGTGCCTCCGAGAGGCTCTGTAGACCGTGACCAT 240
Db 275 TGGTACTGCTGATAGGGTCTTGGAGTGCCTCCGAGAGGCTCTGTAGACCGTGACCAT 334
Qy 241 GAGCAGCAATCTTAACCTCAAGACAAACCAAGAAACCAACCGCCGCCACAGAG 300
Db 335 GAGCAGCAATCTTAACCTCAAGACAAACCAAGAAACCAACCGCCGCCACAGAG 394
Qy 301 CGTTAAGTTCGCGGCGGTGGCGAGATGTTGGCGGGGTGATCTTGTGGCGGAGGGG 360
Db 395 CGTTAAGTTCGCGGCGGTGGCGAGATGTTGGCGGGGTGATCTTGTGGCGGAGGGG 454
Qy 361 CCCGAGGTGGGTGTGCGCGCAGCAGAAAGACCTCGAGCGGTCCAGCGCGGTGGAG 420

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Db 455 CCCGAGTTGGGTGTGCGCGCGCCGAGAGACTTCCGAGCGGTGCAACCTCGTGAG 514
QY 421 GCGCAACCTATCCCAAGTTAGGCGGAGCAACCGGCGG 459
Db 515 GCGCAACCTATCCCAAGGCTGCGCGCGCCGAGGCGAG 553

RESULT 15

US-08-384-616-3
; Sequence 3, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKE, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Tawo
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESS: Armstrong, Westerman, Hattori, Mclelland &
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 333..1499
; NAME/KEY: misc_feature
; LOCATION: 1..1499
; OTHER INFORMATION: /note= "sequence = 1 - 1499 of SEQ

OTHER INFORMATION: ID NO: 1"
US-08-384-616-3

Query Match 85.3%; Score 393.4; DB 2; Length 1499;
Best Local Similarity 91.1%; Pred. No. 1.4e-108;
Matches 418; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

QY 1 CGTACAGCTTCAGAGACCCCCCTCCCGGAGAGCCATAGTGTCTTCGGAACCGGTAG 60
Db 95 CGTGACGCTTCAGAGACCCCCCTCCCGGAGAGCCATAGTGTCTTCGGAACCGGTAG 154
QY 61 TACACCGGAATTGCGGGAAGAAGCTGGTCTTTCTTGATTAACCACTTAAGCCCGGA 120
Db 155 TACACCGGAATTGCGGGAAGAAGCTGGTCTTTCTTGATTAACCACTTAAGCCCGGA 214
QY 121 GATTGGGCGTGGCCCGCAAGACTGCTAGCCGAGTACGCTTGGGTTGCGAAAGGCTTG 180
Db 215 GATTGGGCGTGGCCCGCAAGACTGCTAGCCGAGTACGCTTGGGTTGCGAAAGGCTTG 274
QY 181 TGTACTGCTGATAGGAGTCTTGCAGTGCCTCCGAGAGTCTGTAGACCGTGCACAT 240
Db 275 TGTACTGCTGATAGGAGTCTTGCAGTGCCTCCGAGAGTCTGTAGACCGTGCACAT 334
QY 241 GAGCAGGAATCTTAACCTCAAGACAAACCAAAAGAAACCAACCCGCGCCACAGGA 300
Db 335 GAGCAGGAATCTTAACCTCAAGAAACCAAAAGAAACCAACCGTACCAACCGCCGACAGGA 394
QY 301 CGTTAAGTCCCGGCGGTGCGCAGATGTTGGCGGGGTGAATTGTCGCGCAGAGG 360
Db 395 CGTCAAGTCCCGGCGGTGCGCAGATGTTGGCGGGGTGAATTGTCGCGCAGAGG 454
QY 361 CCCGAGATGGGTGTGCGCGAGAGAAAGACTCGAGCGGTCCAGCCGCGTGGAG 420
Db 455 CCCGAGATGGGTGTGCGCGAGAGAAAGACTCGAGCGGTCCAGCCGCGTGGAG 514
QY 421 GCGCAACCTATCCCAAGTTAGGCGCAGCACCGGCGG 459
Db 515 GCGCAACCTATCCCAAGGCTGCGCGCGCGAGGCGAG 553

Search completed: January 11, 2006, 14:46:45
Job time : 137.291 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 11, 2006, 10:56:53 ; Search time 100.519 Seconds
(without alignments)
6012.524 Million cell updates/sec

Title: US-08-836-075B-105
Perfect score: 340
Sequence: 1 cttcctcgtcacagagaggg999.....accacgagacctacganc 340

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents_NA:*
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2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
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8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------|
| 1 | 338.6 | 99.6 | 340 | 3 | US-08-836-075A-105 |
| 2 | 309.8 | 91.1 | 340 | 3 | US-08-836-075A-99 |
| 3 | 309 | 90.9 | 335 | 3 | US-08-836-075A-101 |
| 4 | 228.6 | 67.2 | 340 | 3 | US-08-836-075A-71 |
| 5 | 226.6 | 66.6 | 340 | 3 | US-09-878-281A-215 |
| 6 | 220.2 | 64.8 | 340 | 3 | US-08-441-971-15 |
| 7 | 220.2 | 64.8 | 340 | 3 | US-08-221-653-15 |
| 8 | 220.2 | 64.8 | 340 | 3 | US-08-442-144A-15 |
| 9 | 220.2 | 64.8 | 340 | 3 | US-08-441-970-15 |
| 10 | 219.8 | 64.6 | 340 | 3 | US-08-441-971-16 |
| 11 | 219.8 | 64.6 | 340 | 3 | US-08-221-653-16 |
| 12 | 219.8 | 64.6 | 340 | 3 | US-08-442-144A-16 |
| 13 | 219.8 | 64.6 | 340 | 3 | US-08-441-970-16 |
| 14 | 218.2 | 64.2 | 9511 | 2 | US-07-925-695-6 |
| 15 | 218.2 | 64.2 | 9511 | 2 | US-07-925-695-7 |
| 16 | 213.8 | 62.9 | 340 | 3 | US-08-441-971-17 |
| 17 | 213.8 | 62.9 | 340 | 3 | US-08-221-653-17 |
| 18 | 213.8 | 62.9 | 340 | 3 | US-08-442-144A-17 |
| 19 | 213.8 | 62.9 | 340 | 3 | US-08-441-970-17 |
| 20 | 213.6 | 62.8 | 340 | 3 | US-08-836-075A-69 |
| 21 | 212.6 | 62.5 | 340 | 3 | US-09-878-281A-145 |
| 22 | 212.6 | 62.5 | 2693 | 2 | US-07-925-695-4 |
| 23 | 212.6 | 62.5 | 9589 | 2 | US-07-925-695-1 |
| 24 | 212.6 | 62.5 | 9589 | 2 | US-07-925-695-2 |

| | | | | | | |
|----|-------|------|-----|---|--------------------|-------------------|
| 25 | 207.8 | 61.1 | 340 | 3 | US-08-836-075A-79 | Sequence 79, Appl |
| 26 | 207.4 | 61.0 | 340 | 3 | US-08-441-971-13 | Sequence 13, Appl |
| 27 | 207.4 | 61.0 | 340 | 3 | US-08-441-971-14 | Sequence 14, Appl |
| 28 | 207.4 | 61.0 | 340 | 3 | US-08-221-653-13 | Sequence 13, Appl |
| 29 | 207.4 | 61.0 | 340 | 3 | US-08-221-653-14 | Sequence 14, Appl |
| 30 | 207.4 | 61.0 | 340 | 3 | US-08-442-144A-13 | Sequence 13, Appl |
| 31 | 207.4 | 61.0 | 340 | 3 | US-08-442-144A-14 | Sequence 14, Appl |
| 32 | 207.4 | 61.0 | 340 | 3 | US-08-441-970-13 | Sequence 13, Appl |
| 33 | 207.4 | 61.0 | 340 | 3 | US-08-441-970-14 | Sequence 14, Appl |
| 34 | 196.4 | 57.8 | 340 | 3 | US-08-836-075A-77 | Sequence 77, Appl |
| 35 | 191.4 | 56.3 | 340 | 3 | US-08-836-075A-73 | Sequence 73, Appl |
| 36 | 173.4 | 51.0 | 340 | 3 | US-08-836-075A-55 | Sequence 55, Appl |
| 37 | 169.4 | 49.8 | 340 | 3 | US-09-878-281A-211 | Sequence 211, App |
| 38 | 168.6 | 49.6 | 340 | 3 | US-08-836-075A-87 | Sequence 87, Appl |
| 39 | 168 | 49.4 | 340 | 3 | US-08-441-971-6 | Sequence 6, Appl |
| 40 | 168 | 49.4 | 340 | 3 | US-08-442-144A-6 | Sequence 6, Appl |
| 41 | 168 | 49.4 | 340 | 3 | US-08-441-970-6 | Sequence 6, Appl |
| 42 | 168 | 49.4 | 340 | 3 | US-08-441-970-6 | Sequence 6, Appl |
| 43 | 166.4 | 48.9 | 340 | 3 | US-08-836-075A-83 | Sequence 83, Appl |
| 44 | 165.8 | 48.8 | 340 | 3 | US-09-878-281A-106 | Sequence 106, App |
| 45 | 165.8 | 48.8 | 340 | 3 | US-09-878-281A-209 | Sequence 209, App |

ALIGNMENTS

RESULT 1
US-08-836-075A-105
Sequence 105, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836, 075A
FILING DATE: 21 Apr 1997
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 105:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO

ANTI-SENSE: NO
US-08-836-075A-105

Query Match 99.6%; Score 338.6; DB 3; Length 340;
Best Local Similarity 100.0%; Pred. No. 6.5e-98;
Matches 340; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 CTTACTGTCAAGAGAGGATATATACGAGAGAGGAAATCCATYATCTGTGCTGTCAATT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACGACAGAGGCCAGGCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
DB 121 GATGAAAAACGACAGAGGCCAGGCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCAAGGCGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCAAGGCGCTTTAAAGC 240
OY 241 CGCTGGCATTTGTTGACCCAGTATGCTGCTGCGGCGACGACCTAGTGTATCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCAGTATGCTGCTGCGGCGACGACCTAGTGTATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGCAACCAAGCAAGCACTAAGANTC 340
DB 301 AAGCAAGGGGGTGGAGAGAGCAACCAAGCAAGCACTAAGANTC 340
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RESULT 2

US-08-836-075A-99

Sequence 99, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 99:

SEQUENCE CHARACTERISTICS:

LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-99

Query Match 99.1%; Score 309.8; DB 3; Length 340;
Best Local Similarity 94.1%; Pred. No. 9.7e-89;
Matches 320; Conservative 1; Mismatches 19; Indels 0; Gaps 0;

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OY 1 CTTACTGTCAAGAGAGGATATATACGAGAGAGGAAATCCATYATCTGTGCTGTCAATT 60
DB 1 CTTACTGTCAAGAGAGGATATATACGAGAGAGGAAATCCATYATCTGTGCTGTCAATT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACGACAGAGGCCAGGCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
DB 121 GATGAAAAACGACAGAGGCCAGGCTGTGGGATACAGAGGGGTTGCCCGGAAGGGGTTT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCAAGGCGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTGTACATCAAGGCAAGGCGCTTTAAAGC 240
OY 241 CGCTGGCATTTGTTGACCCAGTATGCTGCTGCGGCGACGACCTAGTGTATCTCAGA 300
DB 241 CGCTGGCATTTGTTGACCCAGTATGCTGCTGCGGCGACGACCTAGTGTATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGCAACCAAGCAAGCACTAAGANTC 340
DB 301 AAGCAAGGGGGTGGAGAGAGCAACCAAGCAAGCACTAAGANTC 340
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RESULT 3

US-08-836-075A-101

Sequence 101, Application US/08836075A

Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

APPLICANT: STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P. O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/836,075A

FILING DATE: 21 Apr 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/EP95/04155

FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 101:
SEQUENCE CHARACTERISTICS:
LENGTH: 335 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-101

Query Match 90.9%; Score 309; DB 3; Length 335;
Best Local Similarity 94.0%; Pred. No. 1.7e-88;
Matches 315; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

OY 1 CTTCTACTGTCAAGAGAGGATATACGAACAGAGGATCCATYATCTGGCTTGCATTT 60
DB 1 CTCACCTTCTACTGAGAGACATACGACAGAGAAATCTATYTTGGCTTGCATTT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 GCCCGAAGAGGCCCGGAAGGCCATTAATCACTGACAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACAGCAAGGCCCGAGCTGCGGATACAGCGGTTGCCCGCAAGCGGGTATT 180
DB 121 GATGAAAAACAGCAAGGCCCGAGCTGCGGATATAGCGGTTGCCCGCAAGCGGGTATT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGCGCAAGCGGGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGCGCAAGCGGGCTTTAAAGC 240
OY 241 CGTGGCATTTGTTGACCCAGTATGCTGTCGCGGACGACCACTAGTGTTCATCTCAGA 300
DB 241 YGCTGGCATTTGTTGACCCGATGATCTGTCGCGGACGACCACTAGTGTTCATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGCAACAGACGACCTTAC 335
DB 301 GAGCAAGGGGGTGGAGAGAGCAACAGACGACCTTAC 335

RESULT 4

US-08-836-075A-71
Sequence 71, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 71:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-71

Query Match 67.2%; Score 228.6; DB 3; Length 340;
Best Local Similarity 79.4%; Pred. No. 7e-63;
Matches 270; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

OY 1 CTTCTACTGTCAAGAGAGGATATACGAACAGAGGATCCATYATCTGGCTTGCATTT 60
DB 1 CTCACCTTCTACTGAGAGACATACGACAGAGAAATCTATYTTGGCTTGCATTT 60
OY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGCGGCC 120
DB 61 ACCCGAAGAGGCCCGGAGCTGCGGATACATCACTGACAGAGACTATACGTGGCGGCC 120
OY 121 GATGAAAAACAGCAAGGCCCGAGCTGCGGATACAGCGGTTGCCCGCAAGCGGGTATT 180
DB 121 GATGAAAAACAGCAAGGCCCGAGCTGCGGATACAGCGGTTGCCCGCAAGCGGGTATT 180
OY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGCGCAAGCGGGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTTTACATCAAGCGCAAGCGGGCTTTAAAGC 240
OY 241 CGTGGCATTTGTTGACCCAGTATGCTGTCGCGGACGACCACTAGTGTTCATCTCAGA 300
DB 241 TGGCGCATTTGTTGACCCCAAGTATGCTGTCGCGGACGACCACTAGTGTTCATCTCAGA 300
OY 301 AAGCAAGGGGGTGGAGAGAGCAACAGACGACCTTAC 340
DB 301 GATCAAGGGGGTGGAGAGAGCAACAGACGACCTTAC 340

RESULT 5

US-09-878-281A-215
Sequence 215, Application US/09878281A
Patent No. 6762024
GENERAL INFORMATION:
APPLICANT: Immunogenetics N.V.
TITLE OF INVENTION: New sequences of hepatitis C virus genotypes for diagnosis, prophylaxis and therapy
FILE REFERENCE: 35
CURRENT APPLICATION NUMBER: US/09/878,281A
CURRENT FILING DATE: 2001-06-12
NUMBER OF SEQ ID NOS: 284
SOFTWARE: Patentin version 3.1
SEQ ID NO 215
LENGTH: 340
TYPE: DNA
ORGANISM: hepatitis C virus
US-09-878-281A-215

Query Match 66.6%; Score 226.6; DB 3; Length 340;
Best Local Similarity 79.5%; Pred. No. 3e-62;
Matches 268; Conservative 0; Mismatches 69; Indels 0; Gaps 0;

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-221-653-15

Query Match 64.8%; Score 220.2; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 3.3e-60;
Matches 264; Conservative 1; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTCTACTGTCAAGAGAGGATATACGACAGAGGATCCATTTATCTGTGCTTCAATT 60
DB 1 CTCTACAGTCAAGAGAGGAGATCAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGAGCCATCAATCACTGACAGAGAGACTATACGTGGGCGGCC 120
DB 61 GCTGAGAGAGGCCCGAATCTGTATCACTCACTGACAGAGACTGTACGTAGGGGGGCC 120
QY 121 GATGAAAAACAGAGAGGCCCGCTGAGATACAGGGGTTGCGCGAGAGGGGGTATT 180
DB 121 CATGCAAAACAGAGAGGGCAATCTCTGCGGTACAGGGCGTTGCCGCGAGGGAGTCT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGAGCGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGAGCGCGCTTTAAAGC 240
QY 241 CGCTGCAATTTGTTGACCCAGTGATCTGTGTGCGGCGAGCGAAGCTTAGTGTATCTAGA 300
DB 241 CGCGGGCATTTGTTGCTCTCCACCATGTTGTGTGCGGCGAGCGAAGCTTAGTGTATCTAGA 300
QY 301 AAGCAAGGGGGTGGAGAGAGCAACGAGACCTTAGANTC 340
DB 301 GAGTCAGGGGGTGGAGAGAGATGAGCGAAGCTTAGAGTC 340

RESULT 8

US-08-442-144A-15
Sequence 15, Application US/08442144A

Patent No. 6214583
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
APPLICANT: Eileen Beall
APPLICANT: Bruce Irvine
APPLICANT: Janice Kolberg
APPLICANT: Michael S. Urdea
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: Chiron Corporation
STREET: 4560 Horton Street
CITY: Emeryville
STATE: California
COUNTRY: USA
ZIP: 94608-2916
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 Inch
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,144A
FILING DATE: MAY 16, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/221,653
FILING DATE: APRIL 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Doreen Yanko Trujillo
REGISTRATION NUMBER: 35,719
REFERENCE/DOCKET NUMBER: CHIR-0121

TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
TELEX:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 Nucleotides
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5110
US-08-442-144A-15

Query Match 64.8%; Score 220.2; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 3.3e-60;
Matches 264; Conservative 1; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTCTACTGTCAAGAGAGGATATACGACAGAGGATCCATTTATCTGTGCTTCAATT 60
DB 1 CTCTACAGTCAAGAGAGGAGATCAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAGAGCCATCAATCACTGACAGAGAGACTATACGTGGGCGGCC 120
DB 61 GCTGAGAGAGGCCCGAATCTGTATCACTCACTGACAGAGACTGTACGTAGGGGGGCC 120
QY 121 GATGAAAAACAGAGAGGCCCGCTGAGATACAGGGGTTGCGCGAGAGGGGGTATT 180
DB 121 CATGCAAAACAGAGAGGGCAATCTCTGCGGTACAGGGCGTTGCCGCGAGCGAGTCT 180
QY 181 CACCAAGAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGAGCGCTTTAAAGC 240
DB 181 CACCAAGAGCTTGGGGAACACCATGATCTTTATCATCAAGGCGAGCGCGCTTTAAAGC 240
QY 241 CGCTGCAATTTGTTGACCCAGTGATCTGTGTGCGGCGAGCGAAGCTTAGTGTATCTAGA 300
DB 241 CGCGGGCATTTGTTGCTCTCCACCATGTTGTGTGCGGCGAGCGAAGCTTAGTGTATCTAGA 300
QY 301 AAGCAAGGGGGTGGAGAGAGCAACGAGACCTTAGANTC 340
DB 301 GAGTCAGGGGGTGGAGAGAGATGAGCGAAGCTTAGAGTC 340

RESULT 9

US-08-441-970-15
Sequence 15, Application US/08441970

Patent No. 6297370
GENERAL INFORMATION:
APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P. C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: DNA
INDIVIDUAL ISOLATE: ns5110
US-08-441-970-15

Query Match 64.8%; Score 220.2; DB 3; Length 340;
Best Local Similarity 77.6%; Pred. No. 3.3e-60;
Matches 264; Conservative 1; Mismatches 75; Indels 0; Gaps 0;

QY 1 CTCTACTGTCAAGAGAGGAGATATACGAACAGAGATCCATYATCTGTGCTTCATTT 60
DB 1 CTCTACAGTCACAGAGAGGAGATCAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATAGTGGGCGGCC 120
DB 61 GCGTGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATAGTGGGCGGCC 120
QY 121 GATGGAAG 180
DB 121 CATGCAAAACAG 180
QY 181 CACCAAG 240
DB 181 CACCAAG 240
QY 241 CGCTGCAATTTGTTGACCCAGATGCTCGTGTGCGGCGAGAGAGAGAGAGAGAG 300
DB 241 CGCGGCAATTTGTTGACCCAGATGCTCGTGTGCGGCGAGAGAGAGAGAGAGAG 300
QY 301 AAGCAAG 340
DB 301 GAGTCAG 340

RESULT 10
US-08-441-971-16

; Sequence 16, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janiuk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
ORIGINAL SOURCE: DNA
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-971-16

Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4.5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTCTACTGTCAAGAGAGGATATATACGAACAGAGAAATCCATYATCTGTGCTTCATTT 60
DB 1 CTCTACAGTCACAGAGAGGAGATCAGAACCGAGAGTCCATCTATCTGTCTCTCACT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATAGTGGGCGGCC 120
DB 61 GCGTGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGAGACTATAGTGGGCGGCC 120
QY 121 GATGGAAG 180
DB 121 CATGCAAAACAG 180
QY 181 CACCAAG 240
DB 181 CACCAAG 240
QY 241 CGCTGCAATTTGTTGACCCAGATGCTCGTGTGCGGCGAGAGAGAGAGAGAGAG 300
DB 241 CGCGGCAATTTGTTGACCCAGATGCTCGTGTGCGGCGAGAGAGAGAGAGAGAG 300
QY 301 AAGCAAG 337
DB 301 GAGTCAG 337

RESULT 11
US-08-221-653-16

; Sequence 16, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:

APPLICANT: Tai-An Cha
TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
DIAGNOSTICS AND THERAPEUTICS
NUMBER OF INVENTION: 147
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,970
FILING DATE: 16-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/881,528
FILING DATE: 08-MAY-1992
APPLICATION NUMBER: 07/697,326
FILING DATE: 8 May 1991
ATTORNEY/AGENT INFORMATION:
NAME: Janluk, Anthony J.
REGISTRATION NUMBER: 29,809
REFERENCE/DOCKET NUMBER: C0772/7000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 720-3500
TELEFAX: (617) 720-2441
TELEX: EZEKIEL
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 340 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
MOLECULE TYPE: DNA
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: ns5arg6
US-08-441-970-16

Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4,5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;

QY 1 CTTACTGTGACAGAGGAGATATACGAGAGGATCCATYATCTGGCTGTTCATT 60
DB 1 CTTACAGTCAAGGAGGAGGACATAGAACGAGAGTCCATCTATCTGTCTGTTCATT 60
QY 61 GCCCGAAGAGGCCCGGAGGCCATCAATCACTGACAGAGAGACTATACTGGGCGGCC 120
DB 61 GCGTGAAGGAGGCTCAAGTCCATCACTGACTGACTGAGAGGCTGTACGTAGGGGGCC 120
QY 121 GATGAAAAACAGCAAGGCGCTGGGATACAGGGCTTCCCGGCAAGCGGGTATT 180
DB 121 CATGCAAAACAGCAAGGCGCATCTGCGGGTACAGGGGTTGCCGCGAGGAGTCT 180
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAAGCGGCTTTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAAGCGGCTTTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGTATGCTGTGTGCGGCAAGCACTTAGTGTATCTACA 300
DB 241 CGCGGCAATTTGTTGACCCAGTATGCTGTGTGCGGCAAGCACTTAGTGTATCTACA 300
QY 301 AAGCAAGGGGTGAGAGAGCAACAGAGAGCCTTAGA 337
DB 301 GAGTCAAGGGGTGAGAGAGATGAGCAAGCCTTAGA 337

RESULT 14
US-07-925-695-6
Sequence 6, Application US/07925695
Patent No. 5428145
GENERAL INFORMATION:
APPLICANT: OKAMOTO, Hiroaki
APPLICANT: NAKAMURA, Teisuo
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,
POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND
DETECTION SYSTEMS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Beveridge, DeGrandi, Wellacher & Young
STREET: 1850 M Street, N.W., Suite 800
CITY: Washington
STATE: D.C.
COUNTRY: US
ZIP: 20036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,695
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 287402/91
FILING DATE: 09-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 360441/91
FILING DATE: 05-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Wellacher, Robert G.
REGISTRATION NUMBER: 20,531
REFERENCE/DOCKET NUMBER: 06/87-48009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 659-2811
TELEFAX: (202) 659-1462
TELEX: WOI 64470
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9511 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-925-695-6

Query Match 64.2%; Score 218.2; DB 2; Length 9511;
Best Local Similarity 64.1%; Pred. No. 5.9e-59;
Matches 216; Conservative 47; Mismatches 74; Indels 0; Gaps 0;

QY 1 CTTACTGTGACAGAGGAGATATACGAGAGGATCCATYATCTGGCTGTTCATT 60
DB 8342 CUCAACCGUACGAGAGGAGCAUAAAGAACAGAAUCCAUAAUACAGCUGUUCUCU 8401
QY 61 GCCCGAAGAGGCCCGGAGGCCATCAATCACTGACAGAGAGACTATACTGGGCGGCC 120
DB 8402 GCGUCAAAGAGCCAGAACUUGUACUACUCGUCUACUAGAGAUUUUACUAGAGAGGCC 8461
QY 121 GATGAAAAACAGCAAGGCGCAGGCTGGGATACAGGCGTTGCCGCAAGCGGGTATT 180
DB 121 GATGAAAAACAGCAAGGCGCAGGCTGGGATACAGGCGTTGCCGCAAGCGGGTATT 180
QY 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAAGCGGCTTTAAAGC 240
DB 181 CACCAAGCTTGGGGAACACCATGACTTGTATCAATCAAGGCAAGCGGCTTTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGTATGCTGTGTGCGGCAAGCACTTAGTGTATCTACA 300
DB 241 CGCTGGCATTTGTTGACCCAGTATGCTGTGTGCGGCAAGCACTTAGTGTATCTACA 300
QY 8582 UGCRGGAGUCGUGAGCCUGUUAUGUGUGUGAGAGCAACCCUGUACUCUACUACGA 8641
DB 8582 UGCRGGAGUCGUGAGCCUGUUAUGUGUGUGAGAGCAACCCUGUACUCUACUACGA 8641

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/ MEDIUM TYPE: Diskette, 5.25 inch
/ COMPUTER: IBM compatible
/ OPERATING SYSTEM: MS-DOS Version 3.3
/ SOFTWARE: WordPerfect 5.1
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/221.653
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/07/881.528
/ FILING DATE:
/ APPLICATION NUMBER: 07/697.326
/ FILING DATE: 8 May 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Janiuk, Anthony J.
/ REGISTRATION NUMBER: 29, 809
/ REFERENCE/DOCKET NUMBER: C0772/7000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 720-3500
/ TELEFAX: (617) 720-2441
/ TELEX: EZEKIEL
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5arg6
/
US-08-221-653-16
Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4.5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;
/
QY 1 CTCTACTGTCTCAGAGAGGGATATACGAAACAGAGAAATCCATATATCTGCTGTTCATT 60
DB 1 CTCTACAGTCAAGAGAGGAGGACATCAGAACCGAGAGTCCATCTATCTGTCTGTTCATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGGGGCC 120
DB 61 GCTTGAGAGAGGCTCAACTGCACTACCTGACTGAGAGGCTGTACGTAGGGGGGCC 120
QY 121 GATGGAACACAGCAAGGCCAGGCTGCGATACAGAGGCTTGCAGAGGGGGTATT 180
DB 121 CATGCAACACAGCAAGGGCAATCTCTGCGGTACAGGGCTTGCAGAGGGGGTACT 180
QY 181 CACCAACAAGCTTGGGAAACACCATGACTTTTATCATCAAGGCAAGGGCGCTTTAAAGC 240
DB 181 CACCAACAAGCTTGGGAAACACCATGACTTGTGTAAGGCTTAAAGGGCATGTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGCGGCGACGACCTTAGTGTCATTGAGA 300
DB 241 CGCGGGCATTTGTTGCCCCCAGCATGTTGTGTGCGGCGACGACCTTAGTGTCATTGAGA 300
QY 301 AAGCAAGGGGGTGAAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 337
DB 301 GAGTCAAGGGGTGAGAGAGATGAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 337
/
RESULT 12
US-08-442-144A-16
/ Sequence 16, Application US/08442144A
/ Patent No. 6214583
/ GENERAL INFORMATION:
/ APPLICANT: Tai-An Cha
/ APPLICANT: Eileen Beall
/ APPLICANT: Bruce Irvine
/ APPLICANT: Janice Kolberg
/ APPLICANT: Michael S. Urdea
/ TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
/ DIAGNOSTICS AND THERAPEUTICS
```

```
/ NUMBER OF SEQUENCES: 148
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Chiron Corporation
/ STREET: 4560 Horton Street
/ CITY: Emeryville
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94608-2916
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 3.5 Inch
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: Windows NT
/ SOFTWARE: Microsoft Word 97
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/442.144A
/ FILING DATE: MAY 16, 1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/221.653
/ FILING DATE: APRIL 1, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Doreen Yacko Trujillo
/ REGISTRATION NUMBER: 35, 719
/ REFERENCE/DOCKET NUMBER: CHIR-0121
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 215-568-3100
/ TELEFAX: 215-568-3439
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 340 Nucleotides
/ TYPE: Nucleic Acid
/ STRANDEDNESS: Single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ ORIGINAL SOURCE:
/ INDIVIDUAL ISOLATE: ns5arg6
/
US-08-442-144A-16
Query Match 64.6%; Score 219.8; DB 3; Length 340;
Best Local Similarity 78.0%; Pred. No. 4.5e-60;
Matches 263; Conservative 1; Mismatches 73; Indels 0; Gaps 0;
/
QY 1 CTCTACTGTCTCAGAGAGGGATATACGAAACAGAGAAATCCATATATCTGCTGTTCATT 60
DB 1 CTCTACAGTCAAGAGAGGAGGACATCAGAACCGAGAGTCCATCTATCTGTCTGTTCATT 60
QY 61 GCCCGAAGAGGCCCGGAAGGCCATCAATCACTGACAGAGACTATACGTGGGGGCC 120
DB 61 GCTTGAGAGAGGCTCAACTGCACTACCTGACTGAGAGGCTGTACGTAGGGGGGCC 120
QY 121 GATGGAACACAGCAAGGCCAGGCTGCGATACAGAGGCTTGCAGAGGGGGTATT 180
DB 121 CATGCAACACAGCAAGGGCAATCTCTGCGGTACAGGGCTTGCAGAGGGGGTACT 180
QY 181 CACCAACAAGCTTGGGAAACACCATGACTTTTATCATCAAGGCAAGGGCGCTTTAAAGC 240
DB 181 CACCAACAAGCTTGGGAAACACCATGACTTGTGTAAGGCTTAAAGGGCATGTAAAGC 240
QY 241 CGCTGGCATTTGTTGACCCAGATGATCTGTGTGCGGCGACGACCTTAGTGTCATTGAGA 300
DB 241 CGCGGGCATTTGTTGCCCCCAGCATGTTGTGTGCGGCGACGACCTTAGTGTCATTGAGA 300
QY 301 AAGCAAGGGGGTGAAGAGACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 337
DB 301 GAGTCAAGGGGTGAGAGAGATGAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 337
/
RESULT 13
US-08-441-970-16
/ Sequence 16, Application US/08441970
/ Patent No. 6297370
/ GENERAL INFORMATION:
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